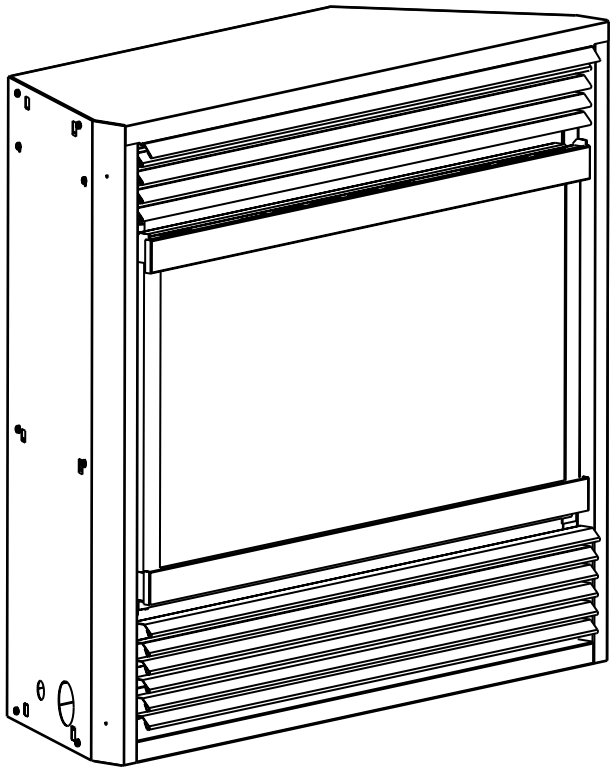


MAJESTIC
VERMONT
Castings

Rear Vented
Direct Vent
Gas Fireplace
DVR33

Installation Instructions & Homeowner's Manual

WARNING! IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS:

- **Do not try to light any appliance.**
- **Do not touch <u>any</u> electric switch**
- **Do not use <u>any</u> phone in your building.**
- **Immediately call your gas supplier from your neighbours phone. Follow the gas suppliers instructions.**
- **If you cannot reach your gas supplier call the fire department**

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS AND/OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

Installation and service must be performed by a qualified installer, service agency or your gas supplier.

The Vermont Castings,
Majestic products company

410 Admiral Blvd. Mississauga, Ontario, Canada. L5T 2N6
www.majesticproducts.com / www.vermontcastings.com

INSTALLER: DO NOT DISCARD THIS MANUAL - LEAVE FOR HOMEOWNER

10002823
9/00 Rev. 0

Table Of Contents

Thank You & Congratulations On Your Purchase of a Vermont Castings, Majestic Products Fireplace.

Please Read The Installation & Operating Instructions Carefully before Using The Appliance.

Important: Read all the instructions and warnings carefully before starting the installation. Failure to follow these instructions fully may result in a possible fire hazard and will void the manufacturers warranty.

Appliance Installation Instructions

- Important curing/burning instructions 3
- Locating your fireplace 3
- Fireplace dimensions 4
- Clearance to combustibles 5
- Mantels 5
- Hearths 5
- Framing and finishing 5
- Final finishing 6
- Gas specifications 6
- Gas inlet & manifold pressures 6
- Gas line installation 6
- Remote switch installation 7
- EB-1 electrical box connection 7
- Converting the appliance from LP to Natural Gas 8

General Venting Information - Terminal Location 10

Venting Installation Instructions

- Connecting Direct Vent components 12
- Rear vent applications & installation 12
- How to use the Vent Graph 14
- Vertical sidewall applications & installation 14
- Below grade installations 17
- Vertical through-the-roof applications & installation 18
- Venting components list 20

Operating Instructions

- Glass warning 22
- General maintenance 22
- Louvre removal 22
- Glass/Frame removal 22
- Glass Cleaning 22
- Installation of logs & lava rock 23
- Flame & temperature adjustment 23
- Flame characteristics & appearance 23
- Lighting instructions 24
- Troubleshooting guide 25

Replacement Parts

- Part number list 27
- Parts pictorial 29

Optional Accessories

- Fan kits 30
- Ceramic refractory lining 31
- Decorative bay window 31
- Remote controls 32
- Decorative trim frames 32

Appliance Installation Instructions

This gas fireplace should be installed by a qualified installer in accordance with local building codes and with current CAN /CGA-B149 (. 1 or .2) Installation codes for Gas Burning Fireplaces and Equipment. If the unit is being installed in a mobile home the installation should comply with the current CAN/CSA Z 240 .4 code.

FOR U.S.A Installations follow local codes and/or the current National Fuel Gas Code. ANSI Z223.1.

FOR SAFE INSTALLATION AND OPERATION PLEASE NOTE THE FOLLOWING:

1. This fireplace gives off high temperatures and should be located out of high traffic areas and away from furniture and draperies.
2. Children and adults should be alerted to the hazards of the high surface temperatures of this fireplace and should stay away to avoid burns or ignition of clothing.
3. ***Caution, due to high glass surface temperature children should be carefully supervised when they are in the same room as the fireplace.***
4. Under no circumstances should this fireplace be modified. Parts removed for servicing should be replaced prior to operating the fireplace again.
5. Installation and any repairs to this fireplace should be carried out by a qualified service person. A professional service person should be contacted to inspect this fireplace annually. Make it a practice to have all of your gas fireplaces checked annually. More frequent cleaning may be required due to excess lint and dust from carpeting, bedding material, etc.
6. Control compartments, burners and air passages in this fireplace should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this fireplace.
7. The venting system (chimney) of this fireplace should be checked at least once a year and if needed your venting system should be cleaned.
8. Keep the area around your fireplace clear of combustible materials, gasoline and other flammable vapour and liquids. This fireplace should not be used as a drying rack for clothing, nor should Christmas stockings or decorations be hung on or around the fireplace.
9. Under no circumstances should any solid fuels (wood, coal, paper or cardboard etc.) be used in this fireplace.
10. The flow of combustion and ventilation air must not be obstructed in any way.
11. When the fireplace is installed directly on carpeting, vinyl tile or any combustible material other than wood, the fireplace must be installed on a metal or wood panel extending the full width and depth of the fireplace.
12. This fireplace requires adequate ventilation and combustion air to operate properly.
13. This fireplace must not be connected to a chimney flue serving a separate solid fuel burning fireplace.
14. When the fireplace is not in use it is recommended that the gas control valve be left in the ***OFF*** position.

This appliance has been approved for after-market mobile home installations

IMPORTANT:
PLEASE REVIEW THE FOLLOWING CAREFULLY

Remove any plastic from trim parts before turning the fireplace ***ON***.

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or car engine.

It is not unusual for your Majestic gas fireplace to give off some odour the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.

Please ensure that your room is well ventilated - open all windows.

It is recommended that you burn your Majestic fireplace for a least six (6) hours the first time you use it. If the optional fan kit has been installed, place the fan switch in the ***OFF*** position during this time.

Locating Your Fireplace

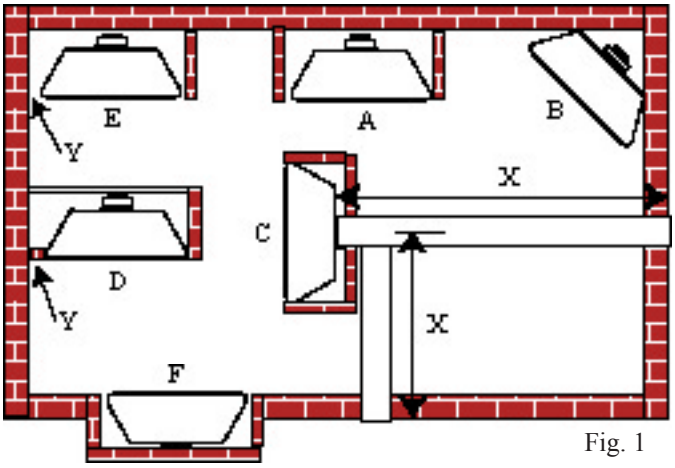


Fig. 1

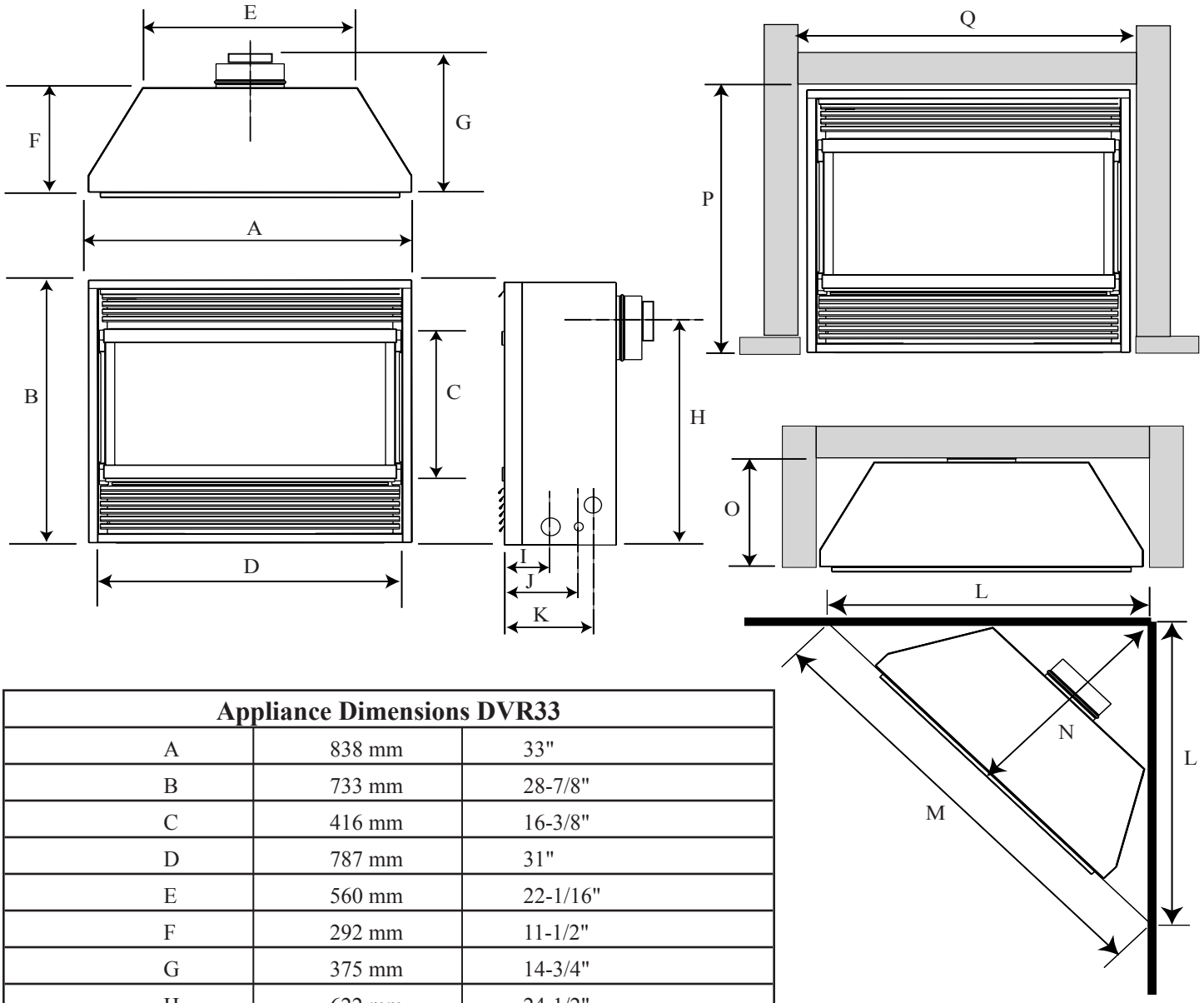
A - Flat on the wall
B - Cross corner
C - **Island
D - *Room divider
E - *flat on wall, corner
F - Chase Installation

Note:

** Island (C) and room divider (D) installation is possible as long as he horizontal portion of the vent system (X) does not exceed 20' (6.1 m). See the venting instructions for details

* When you install the appliance in a room divider (D) or flat in a corner (E) you must have a minimum of 6" (152 mm) between the edge of the fireplace and the adjacent wall (Y).

Appliance & Framing Dimensions



Appliance Dimensions DVR33		
A	838 mm	33"
B	733 mm	28-7/8"
C	416 mm	16-3/8"
D	787 mm	31"
E	560 mm	22-1/16"
F	292 mm	11-1/2"
G	375 mm	14-3/4"
H	622 mm	24-1/2"
I	127 mm	5"
J	191 mm	7-1/2"
K	216 mm	8-1/2"
Framing Dimensions		
L	914 mm	36"
M	1295 mm	51"
N	648 mm	25-1/2"
O	305 mm	12"
P	737 mm	29"
Q	851 mm	33-1/2"

Clearance to Combustibles

Appliance

Top ..... 0 mm (0")
Bottom ..... 0 mm (0")
Vent End ..... 0 mm (0")
Non-vent End..... 0 mm (0")

Venting

Concentric sections of DV Vent
Top, sides & bottom ..... 25 mm (1")
Non-concentric sections of DV Vent
Sides and bottom ..... 25 mm (1")
Top ..... 50 mm (2")

Mantels

The height that a combustible mantel is installed above the fireplace is dependent on the depth of the mantel. This also applies to the distance between the mantel leg (if fitted) and the fireplace.

For the correct mounting height refer and widths refer to Fig. 2 and the Mantel Chart below.

The fitting of a bay window trim kit does not effect the distances and reference points referred to in the diagram and chart.

Non-combustible mantels and legs may be installed at any height and width around the appliance.

When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant to prevent discolouration.

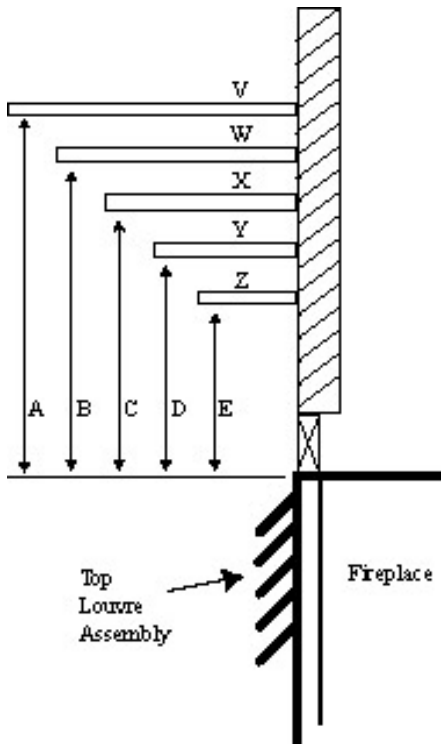


Fig. 2

Mantel Shelf Chart (Minimum Height)			
Ref.	**Mantel Depth**	**Ref.**	**Height above louvre**
V	10" (254 mm)	A	12" (305 mm)
W	8" (203 mm)	B	10" (254 mm)
X	6" (152 mm)	C	8" (203 mm)
Y	4" (101 mm)	D	6" (152 mm)
Z	2" (50 mm)	E	4" (101 mm)

Mantel Leg Dimensions (Minimum Width		
Ref.	**Mantel Leg Depth**	**Distance From Edge of Glass**
A	10" (254 mm)	10" (254 mm)
B	8" (203) mm)	8" (203 mm)
C	6" (152 mm)	6" (152 mm)
D	4" (101 mm)	4" (101 mm)
E	2" (51 mm)	2" (51 mm)

Hearth

A hearth is not mandatory but it is recommended for aesthetic purpose. We recommend a non-combustible hearth which projects out 12" (305 mm) or more from the front of the fireplace.

Cold climate Installation Recommendation:

When installing this unit against a non-insulated exterior wall or chase, it is mandatory that the outer walls be insulated to conform to applicable insulation codes.

Framing and Finishing

1 Choose the unit location.
2 Place the unit into position and secure it to the floor with 1.5" (38 mm) screws, or nails. The holes to secure the unit to the floor are located just behind the access door grille on the left and right side of the unit.
3 Frame in the fireplace with a header across the top. It is important to allow for the finished wall face when setting the depth of the frame.
4 Attach the fireplace to the frame using the adjustable frame drywall strips (located behind the access door for shipping). Preset the depth to suit the facing material of the wall. The strips are adjustable to 1/2"(13 mm), 5/8" (16 mm) or 3/4" (19 mm), Fig. 3 & 4
5 Screw through the slotted holes in the drywall strip and into the pre-drilled holes in the fireplace side. Measure from the face of the fireplace to the face of the drywall strip to confirm the final depth.

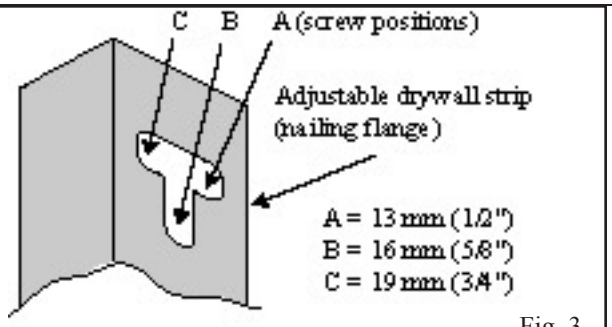


Fig. 3

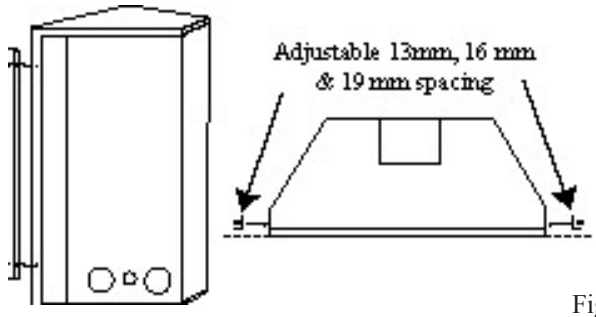


Fig. 4

Final Finishing

Non-combustible materials such as brick or tile may be extended over the edges of the face of the appliance. DO NOT cover any vent or grille panels.

If a Trim Kit is going to be installed on the fireplace, the brick or tile will have to be installed flush with the edges of the appliance.

Gas Specifications

Model	Fuel	Gas Control	Max Input BTU/h	Min Input BTU/h
DVR33RN	Nat.	Millivolt	20,000	14,000
DVR33RP	Prop.	Millivolt	20,000	15,000

Gas Inlet & Manifold Pressures

	Natural Gas	LP (Propane)
Inlet Minimum	4.5" WC	11" WC
Inlet Maximum	7" WC	13" WC
Manifold Pressure	3.5" WC	10" WC

DVR33

CERTIFIED TO

ANSI Z21.88b-1999 / CSA Z2.33b-M99

Vented Gas Fireplace Heaters

The installation of your Majestic Fireplace must conform with local codes, or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1 - latest edition, or CAN 1 B1-149.1 and .2 Installation Code. (EXCEPTION: Do not derate this appliance for altitude. Maintain the manifold pressure at 3.5" WC for Natural Gas and 10" WC for LP Gas

Gas Line Installation

When purging the gas lines, the front glass must be removed.

The gas pipeline can be brought in through the rear of the fireplace as well as the bottom. Knockouts are provided on the bottom behind the valve to allow for the gas pipe installation and testing of any gas connection. It is most convenient to bring the gas line in from the rear right side of the valve as this allows fan installation or removal without disconnecting the gas line.

The gas line connection can be made with properly tinned 3/8" copper tubing, 3/8" rigid pipe or an approved flex connector. Since some municipalities have some additional local codes it is always best to consult your local authority and the CAN/CGA-B149 (.1 or .2) installation codes.

For U.S.A. Installations consult the current National Fuel Gas Code, ANSI Z223.1

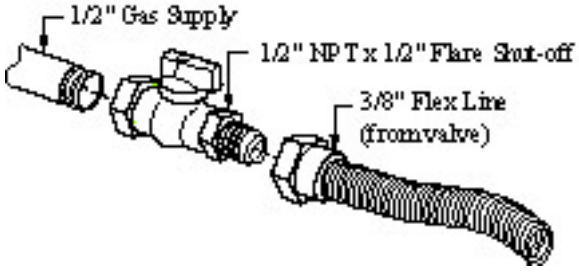


Fig. 5

Always check for gas leaks with a mild soap and water solution. Do not use an open flame for leak testing.

The gas control is equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connectors use only approved fittings. Always provide a union when using black iron pipe so that the gas line can be easily disconnected for burner or fan servicing, see Fig 5. See the gas specification for pressure details and ratings.

The fireplace valve must not be subjected to any test pressures exceeding 1/2 p.s.i.. Isolate or disconnect this and any other gas appliance control from the gas line when pressure testing.

Remote ON/OFF Switch

Installation

1. Thread the wiring through the holes on the end panels of the appliance. Take care not to cut the wire or insulation on metal edges. Route the wire to a conveniently located receptacle box.
2. Attach the wire to the ON/OFF switch and install the switch into the receptacle box.
3. Connect the other ends of the wire to the gas control valve as shown in Fig. 6.

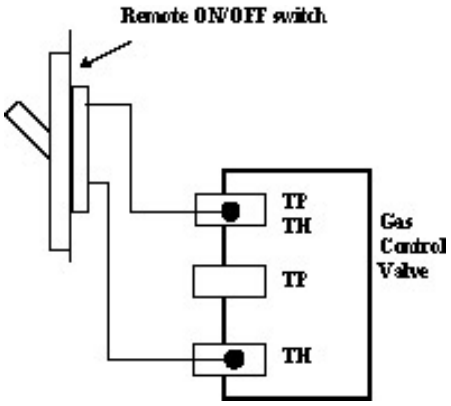


Fig. 6

Alternative Switch Location

The remote switch can be installed on the front/side of the access door. Simply mount the switch to the bracket provided and screw the bracket to either side of the frame, lining up the screws with the pre-punched holes, Fig. 7.

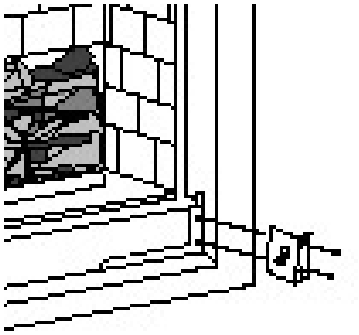


Fig. 7

Do not wire the remote ON/OFF switch into any 120 volt power supply

EB-1 Electrical Box

The fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electric Code.

For U.S.A. installations follow the local codes and the national electrical code ANSI/NFPA No 70.

It is strongly recommended that the wiring of the EB-1 Electrical Junction Box be carried out by a licensed electrician.

Ensure that the power to the supply line has been disconnected before commencing this procedure.

The EB-1 Electrical junction box has been supplied standard on this model to allow for the easy installation of the optional fan kits.

To connect the EB-1 box to the house electrical supply follow the steps below.

1. Unscrew the retaining screw from the EB-1 base plate, Fig. 8 and remove the EB-1 assembly from the appliance
2. Remove the front cover of the EB-1 box.
3. Remove the plug socket assembly from the EB-1 box.
4. Feed the electrical supply line in through the EB-1 opening in the side of the appliance and then through the back of the EB-1 assembly.
5. Connect the ground wire of the supply line to the green screw of the socket assembly.
6. Connect the white wire of the power line to the chrome screw of the socket assembly.
7. Connect the black wire of the power supply line to the brass screw (polarized) of the socket assembly.
8. Refit the socket assembly back into the electrical box and replace the cover plate. Secure the cable with the clamp on the outside of the EB-1 base plate and refit the EB-1 assembly to the appliance with the retaining screw.

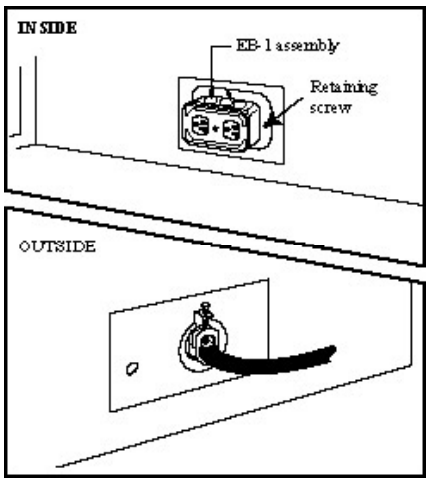


Fig. 8

Converting The Appliance From LP to Natural Gas or Natural Gas to LP.

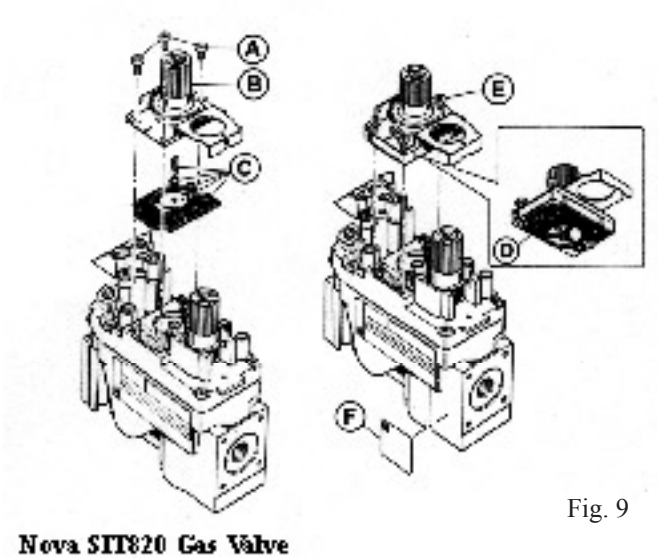
This appliance can be converted from Natural Gas to LP gas (or LP to Natural) with the use of an approved conversion kit. The kits are specific to individual appliances. Contact your authorized distributor to obtain the correct kit.

The conversion of this appliance from one gas to another must be carried out by an authorized service provider.

1. Disconnect power to the unit and shut off the gas supply.
2. Remove the glass/frame assembly.
3. Carefully remove the logs & lava rock material
4. Remove the screws that are holding the burner housing in place.
5. Remove the burner housing. Depending on the model of the appliance you may have to loosen the pilot bracket retaining screw/nut to allow the pilot and bracket assembly to tilt and give enough clearance to remove the burner housing.
6. Remove the front and rear orifice and replace them with the corresponding orifice supplied in the conversion kit. That is, use the orifice with the smallest hole (from the kit) to replace the orifice with the smallest hole (from the appliance). Similarly, use the larger orifice in the kit to replace the larger orifice in the appliance.
7. **SIT Top Convertible Pilot**
   Gently lift off the pilot hood from the pilot. (Do not remove the spring clip holding the hood in place). Using a correctly sized Allen key unscrew the exposed orifice. Insert the new orifice supplied in the kit, do not over tighten the orifice. Replace the pilot hood ensuring the index tab aligns with the notch on the hood.
   PSE Pilot
   Using a suitable wrench on the hexagonal body unscrew the pilot hood assembly from the pilot, do not twist the hood itself. Remove the orifice and replace it with the new orifice supplied in the kit. Refit the pilot hood assembly. Do not over-tighten the pilot hood. The hood must return to its original alignment. Take care not to damage the thermocouple, thermopile or igniter.
8. **SIT 820 NOVA Gas Control Valve** (Fig. 9)
   a) Using a Torx T20 or slotted screwdriver, remove and save the three pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C).
   b) Ensure the rubber gasket (D) is properly positioned and install the new Hi/Lo pressure regulator to the valve using the new screws (E) supplied with the kit. Tighten screws securely. (Reference torque - 25 in.Lb).
   c) Install the enclosed identification label (F) to the valve body where it can be easily seen.

   Honeywell Gas Control Valve (Fig. 10)
   The Honeywell valve fitted to this unit is suitable for use with LP or Natural Gas. It is converted to the required gas application by the installation of a colour coded "conversion screw".
   a) Using a suitable small screwdriver lift out the central regulator cap from the 'Hi - Lo' knob on the valve.
   b) Unscrew the exposed 'conversion screw'.
   c) Insert the new colour coded 'conversion screw'. Do not over-tighten the screw, it must be finger tight.
   d) Refit the regulator cap.
   e) Mount the conversion label supplied with the conversion screw to the valve in a visible position.
9. Reassemble the fireplace in the reverse order, except for the front glass. Leave this off until the unit has been checked for leaks and the gas supply line has been bled.
10. After bleeding the gas line and checking for leaks with a soap solution, replace the front glass. Fire up the unit, check for flame impingement on the logs, adjusting them if necessary. Check the manifold and supply pressures against the appliance specifications.

The procedure for converting from one gas to another is the same regardless of the initial gas used. The only variation is in the orifice sizes and component part numbers. Your authorized service provider will ensure the correct parts are used.



Nova SIT820 Gas Valve

Fig. 9

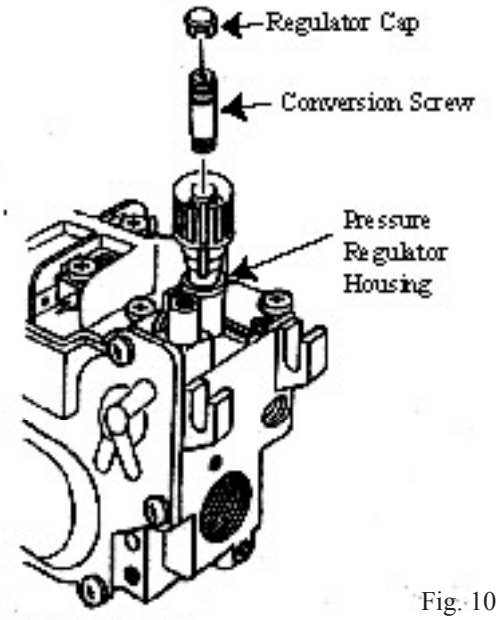


Fig. 10

Honeywell Gas Valve

General Venting Information — Termination Location

Your fireplace is approved to be vented either through the side wall, or vertically through the roof.

- Only venting components specifically approved and labelled for this fireplace may be used.
- Minimum clearances between vent pipes and combustible materials is one (1") inch (25 mm).
- Venting terminals shall not be recessed into a wall or siding.
- Horizontal venting must be installed on a level plane without any incline or decline.

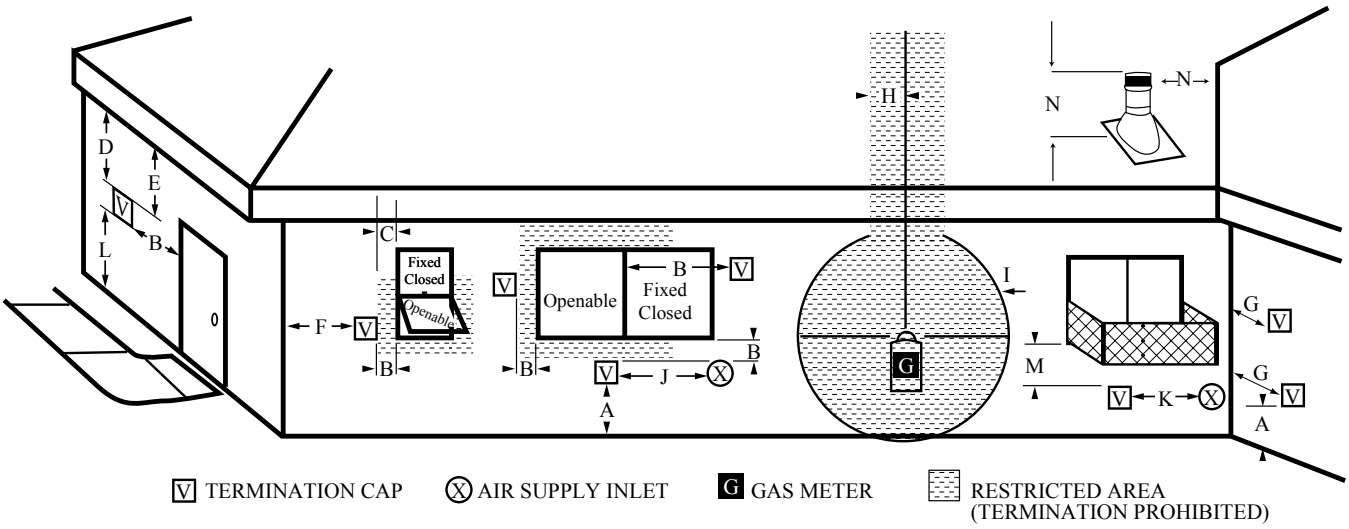
There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination hood.

Do not locate termination hood where excessive snow or ice build up may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

Location of Vent Termination

It is imperative that the vent termination be located observing the minimum clearances as shown on this page.

*Check with local codes or in absence of same with CAN/CGA B149 (.1 or .2) Installation Codes (1991) for Canada or for U.S.A. Installations follow the current National Fuel Gas Code, ANSI Z223.1.



A = *clearance above grade, veranda, porch, deck, or balcony [* 12 inches (305mm) minimum]*

B = *clearance to window or door that may be opened [12" (306mm)].*

C = *clearance to permanently closed window [minimum 12 inches (305mm) recommended to prevent condensation on window]*

D = *vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 24 inches (610mm) from the centre-line of the terminal [18 inches (458mm) minimum]*

E = *clearance to unventilated soffit [12 inches (305mm) minimum].*

F = *clearance to outside corner see next page*

G = *clearance to inside corner see next page*

H = ** not to be installed above a meter/regulator assembly within 36 inches (914mm) horizontally from the centre-line of the regulator*

I = *clearance to service regulator vent outlet [*72 inches (1828mm) minimum]*

J = *clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other fireplace [*12 inches (305mm) minimum]*

K = *clearance to a mechanical air supply inlet [* 72 inches (1828mm) minimum]*

L = *† clearance above paved side-walk or a paved driveway located on public property [*84 inches (2133mm) minimum]*

M = *clearance under veranda, porch, deck [*12 inches (305mm) minimum ‡]*

N = *Clearance above a roof shall extend a minimum of 24" (610mm) above the highest point when it passes through the roof surface, and any other obstruction within a horizontal distance of 18" (450mm).*

*† a vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings **

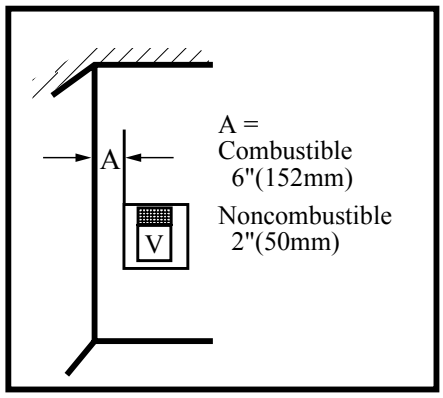
*‡ only permitted if veranda, porch, deck, is fully open on a minimum 2 sides beneath the floor **

** as specified in CAN/CGA B149 (.1 or .2) Installation Codes (1991) for Canada or for U.S.A. Installations follow the current National Fuel Gas Code, ANSI Z223.1.*
Note: Local codes or regulations may require different clearances.

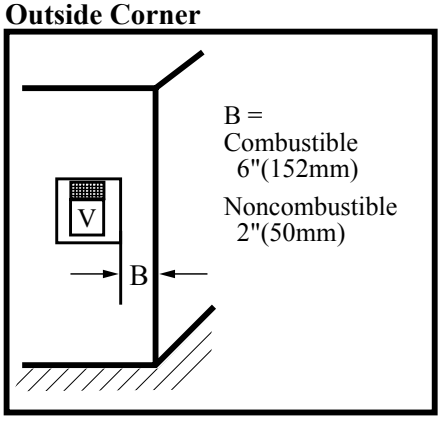
Termination Clearances

Termination clearances for buildings with combustible and noncombustible exteriors.

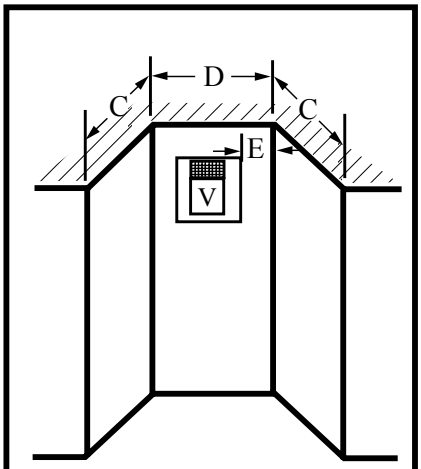
Inside Corner



Outside Corner



Recessed Location

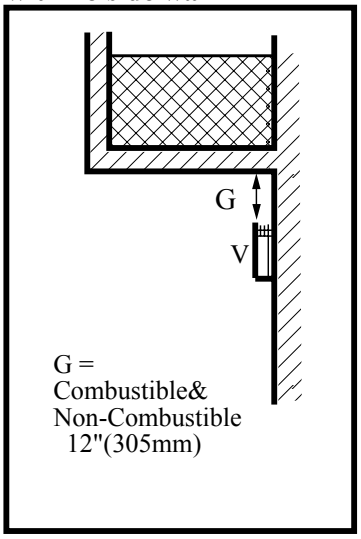


C = Maximum depth of 48" (1219mm) for recessed location.

D = Minimum width for back wall of a recessed location.
Combustible 38"(965mm)
Noncombustible 24"(610mm)

E = Clearance from corner in recessed location.
Combustible 6"(152mm)
Noncombustible 2"(50mm)

Balcony - with no side wall



Balcony - with perpendicular side wall

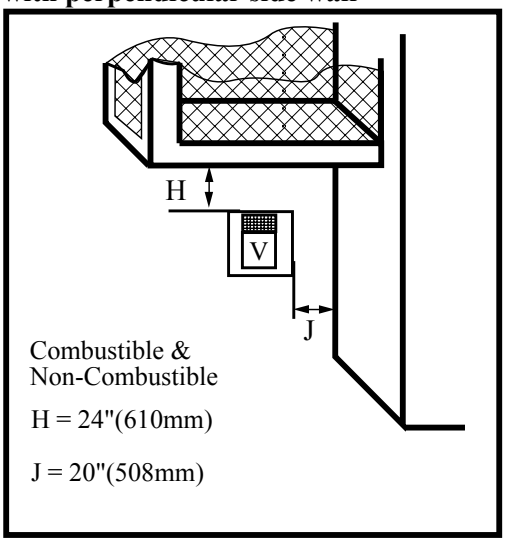


Fig. 11

Venting Installation Instructions

General Information On Assembling The Vent Pipes In Direct Vent Applications.

Crimped End Pipes

Before joining elbows and pipes apply a bead of high temperature sealant to the crimped end of the elbow or pipe.

Join the pipes using a 2" (50 mm) overlap and secure the joints with three sheet metal screws, Fig. 12. Wipe off excess sealant.

CANADIAN INSTALLATIONS:

The venting system must be installed in accordance with the current CAN/CGA-B149 (.1 or .2) installation code.

U.S.A. INSTALLATIONS:

The venting system must conform to local codes and/or the current National Fuel Code ANSI Z223.1.

Only venting components manufactured by the CFM Majestic Products Company may be used in Direct Vent systems.

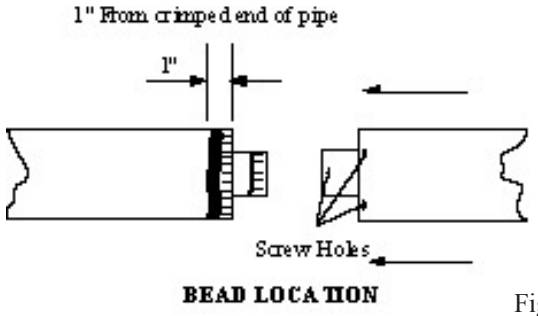


Fig. 12

Twist Lock Pipes

When using CFM Majestic twist lock pipe it is not necessary to use sealant on the joints.

The only areas of the venting system that need to be sealed with high temperature silicone sealant are the collars on the fireplace and termination, and the sliding joint of any telescopic vent section used in the system.

To join the twist lock pipes together, simply align the beads of the male end with the grooves of the female end, then while bringing the pipes together, twist the pipe until the flange on the female end contacts the external flange on the male end.

It is recommended that you secure the joints with three sheet metal screws however this is not mandatory with twist lock pipe.

To make it easier to assemble the joints we suggest putting a lubricant (Vaseline or similar) on the male end of the twist lock pipe prior to assembly.

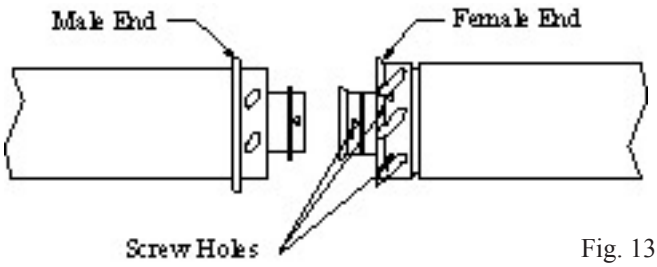


Fig. 13

Rear Wall Vent Application

When installed as a rear vent unit this appliance may be vented directly to a termination located on the rear wall behind the appliance.

- Specific rear vent starter kits must be used in these applications (see 'venting components'). The appliance may be placed flat against the rear wall or at 45º across the corner.
- The maximum horizontal distance between the rear of the appliance (or the end of the transition elbow in a corner application) and the outside face of the rear wall is 20" (508 mm), Fig. 14.
- Only one 45º elbow is allowed in these installations
- The minimum clearances between any combustible material and the vent pipe sections are:

  Top 2" (50 mm)
  Sides 1" (25 mm)
  Bottom 1" (25 mm)

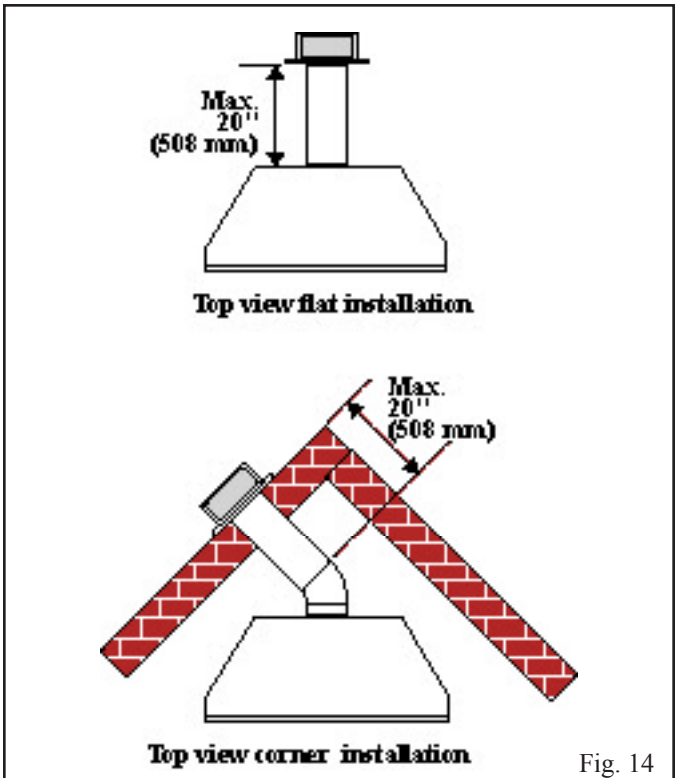


Fig. 14

Rear Wall Vent Installation

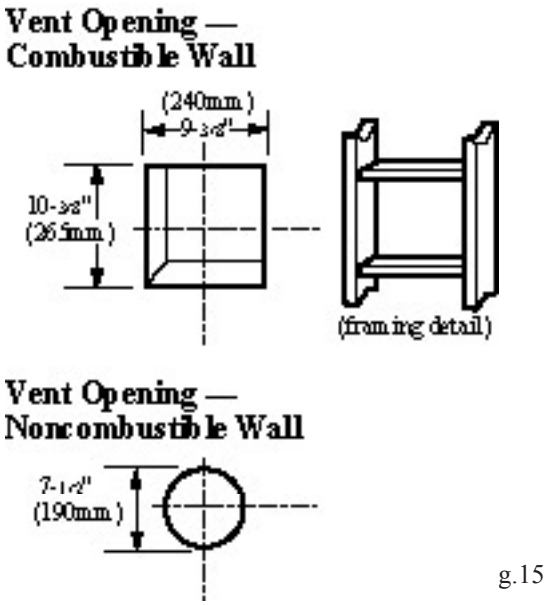
Step 1

Locate and cut the vent opening in the wall, Fig. 15

For combustible walls first frame in opening, Fig. 15.

COMBUSTIBLE WALLS : Cut a 10-3/8"H x 9-3/8"W (265 mm x 240 mm) hole through the exterior wall and frame as shown (Fig. 15).

NON-COMBUSTIBLE WALLS : Hole opening should be 7.5" (190 mm) in diameter.



g.15

Step 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (MAXIMUM 12" / 305 mm). Assemble sleeve to its maximum opening (10-3/8" x 9-3/8") and attach to firestop with #8 sheet metal screws (supplied). Install firestop assembly (Fig. 16).

Zero clearance sleeve is only required for combustible walls.

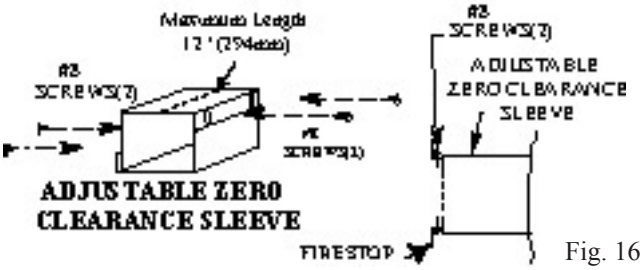


Fig. 16

Step 3

Measure the horizontal length requirement for the venting including a 2" (50 mm) overlap, i.e. from the elbow to the outside wall face plus 2" (50 mm)(or the distance required if installing a second 90º elbow). (Fig. 14).

Step 4

Install the 4" (100 mm) vent to the appliance collar and secure with 3 sheetmetal screws. Install the 7" (175 mm) vent pipe to the appliance collar and secure with 3 sheetmetal screws. It is not necessary to seal this connection. If a 45º elbow is being used attach the elbow to the appliance in the same manner then attach the venting to the elbow.

It is critical that there is no downward slope away from the appliance when connecting the vent or elbow.

Step 5

Guide the venting through the vent hole as you place the appliance in its installed position. Guide the 4" (100 mm) and 7" (175 mm) collars of the vent termination into the outer ends of the venting, Fig. 17. Do not force the termination. If the vent pipes do not align with the termination remove and realign the venting at the appliance flue collars. Attach the termination to the wall as outlined in the instruction sheet supplied with the termination.

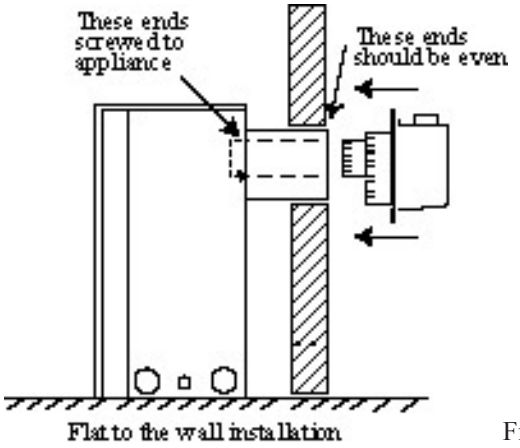


Fig. 17

How To Use The Vent Graph

The Vent Graph should be read in conjunction with the following vent installation instructions to determine the relationship between the vertical and horizontal dimensions of the vent system.

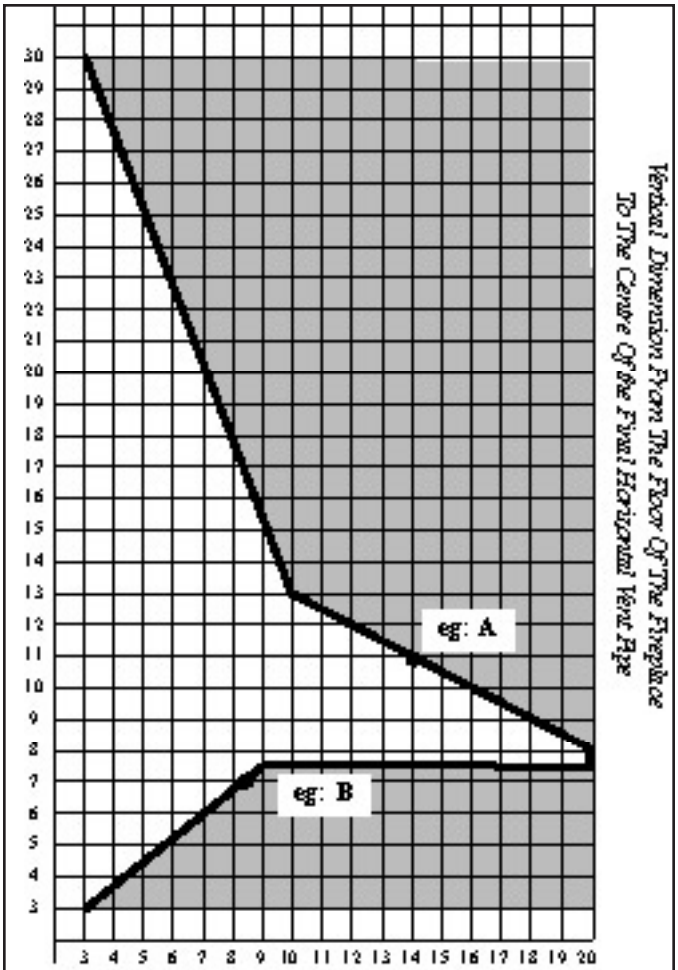
1. Determine the height of the centre of the horizontal vent pipe exiting through the outer wall. Using this dimension on the Sidewall Vent Graph below, locate the point it intersects with the slanted graph line.
2. From the point of this intersection, draw a vertical line to the bottom of the graph.
3. Select the indicated dimension, and position the fireplace in accordance with same.

   EXAMPLE A:

   If the vertical dimension from the floor of the fireplace is 11' (3.4 m) the horizontal run to the face of the outer wall must not exceed 14' (4.3 m).

   EXAMPLE B:

   If the vertical dimension from the floor of the fireplace is 7' (214cm), the horizontal run to the face of the outer wall must not exceed 8-1/2' (2.6 m).



Sidewall Vent Graph showing the relationship betwe en vertical and horizontal dimensions for a Direct Vent flue system

Vertical Sidewall Applications

Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The Sidewall Vent Graph, showing the relationship between vertical and horizontal venting dimensions will help to determine the various vent lengths allowable.

Minimum clearance between vent pipes and combustible materials is one 1"(25mm) on top, bottom and sides unless otherwise noted.

When vent termination exits through foundations less than 20" (508 mm) below siding outcrop, the vent pipe must flush up with the siding.

It is always best to locate the fireplace in such a way that minimizes the number of offsets and horizontal vent length.

The horizontal vent run refers to the total length of vent pipe from the flue collar of the fireplace to the face of the outer wall.

Horizontal plane means no vertical rise exists on this portion of the vent assembly.

When installing a rear vent unit the 90º Transition Elbow attached directly to the rear of the unit is not included in the following criteria and calculations, and unless specifically mentioned should be ignored when calculating venting layouts.

- The maximum number of 90º elbows per side wall installation is three (3).

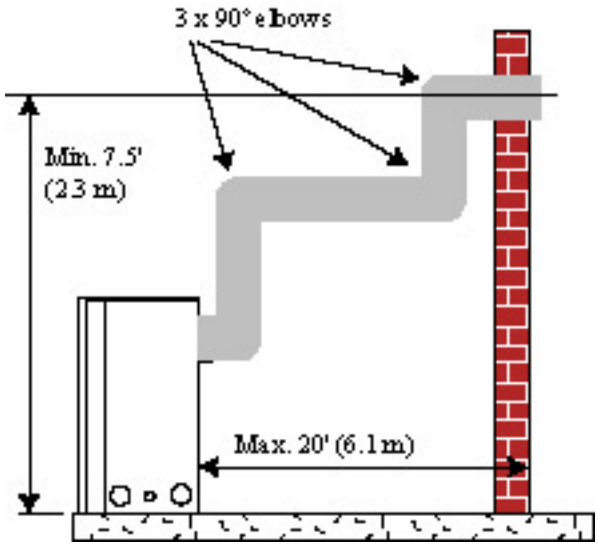


Fig. 18

- If a 90º elbow is fitted directly onto transition elbow attached to the appliance flange the maximum horizontal vent run before the termination or a vertical rise is 36" (914 mm), Fig. 19.

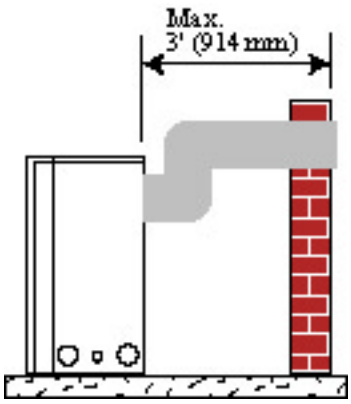


Fig. 19

- If a 90º elbow is used in the horizontal vent run (level height maintained) the maximum horizontal vent length is reduced by 36" (914 mm), (Fig. 20). This does not apply if the 90º elbows are used to increase or redirect a vertical rise (Fig. 18).

  Example: According to the chart the maximum horizontal vent length in a system with a 7.5' vertical rise is 20' (6 m) and if a 90º elbow is required in the horizontal vent it must be reduced to 17' (5.2 m).

  In Fig. 20 Dimension A plus B must not be greater than 17' (5.2 m).

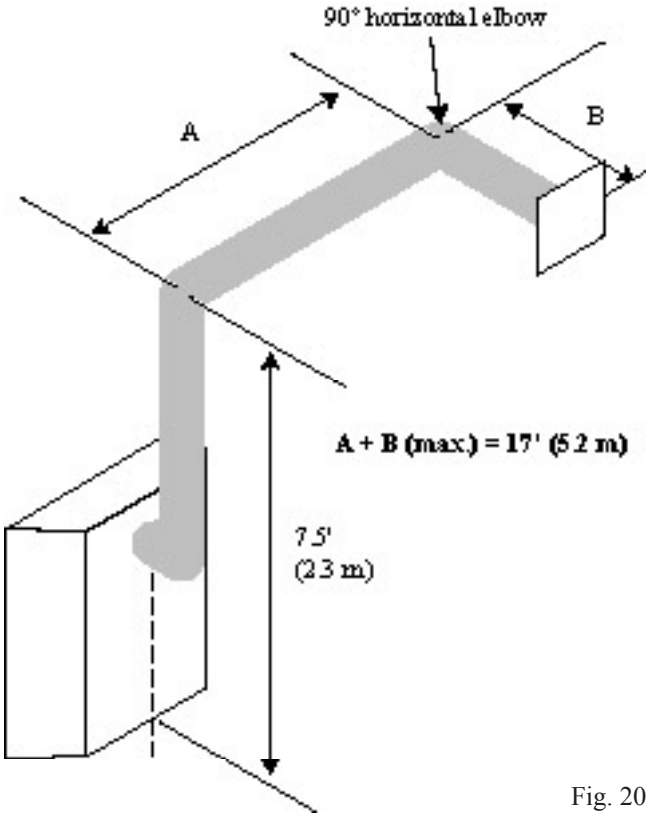


Fig. 20

- The maximum number of 45º elbows permitted per side wall installation is two (2). These elbows can be installed in either the vertical or horizontal run.
- For each 45º elbow installed in the horizontal run, the length of the horizontal run MUST be reduced by 18" (45cm). This does not apply if the 45º elbows are installed on the vertical part of the vent system.
- The maximum number of elbow degrees in a system is 270º (See Fig. 21).

  Example: In Figure 21

Elbow 1	=	90º
Elbow 2	=	45º
Elbow 3	=	45º
Elbow 4	=	90º
Total angular variation	=	270º

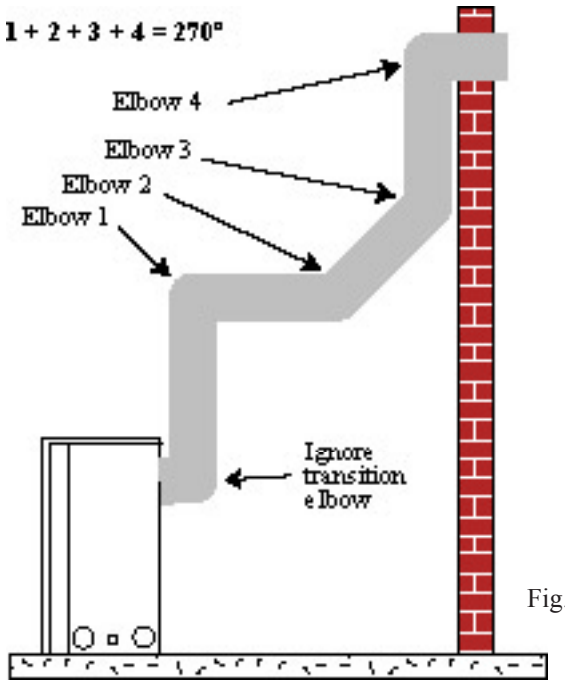


Fig. 21

Vertical Sidewall Installations

Step 1

Locate vent opening on the wall. It may be necessary to first position the fireplace and measure to obtain hole location. Depending on whether the wall is combustible or non-combustible, cut opening to size. (Fig. 22)

(For combustible walls first frame in opening. Fig. 22).

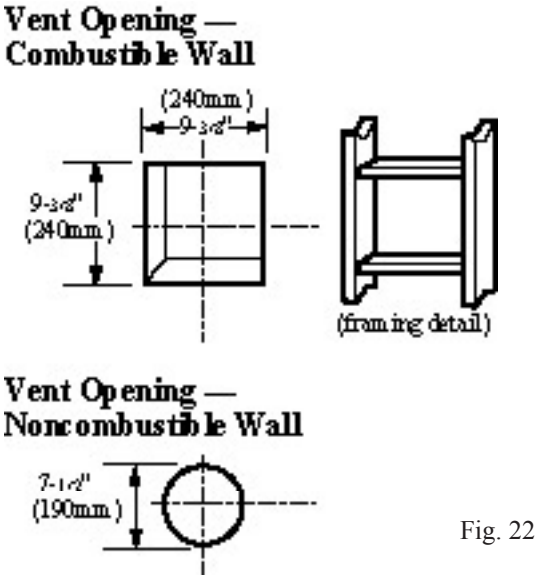


Fig. 22

COMBUSTIBLE WALLS : Cut a 9-3/8"H x 9-3/8"W (240 mm x 240 mm) hole through the exterior wall and frame as shown (Fig. 22).

NON-COMBUSTIBLE WALLS : Hole opening must be 7.5" (190 mm) in diameter.

Step 2

Measure wall thickness and cut zero clearance sleeve parts to proper length (MAXIMUM 12" / 305 mm). Assemble sleeve and attach to firestop with #8 sheet metal screws (supplied). Install firestop assembly (Fig. 23).

Zero clearance sleeve is only required for combustible walls.

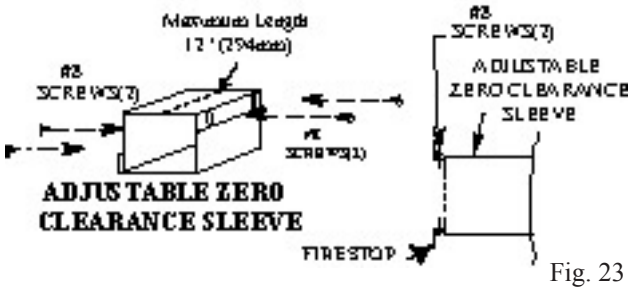


Fig. 23

Step 3

Apply a bead of high temperature sealant to the vent flanges on the back of the appliance and attach a 90º transition elbow. Ensure that the inner and outer elbow ends are concentric before attaching the vertical lengths of venting. Place the fireplace into position. (Fig. 24). Measure the vertical height (X) required from the end of the transition elbow to the centre of the wall opening.

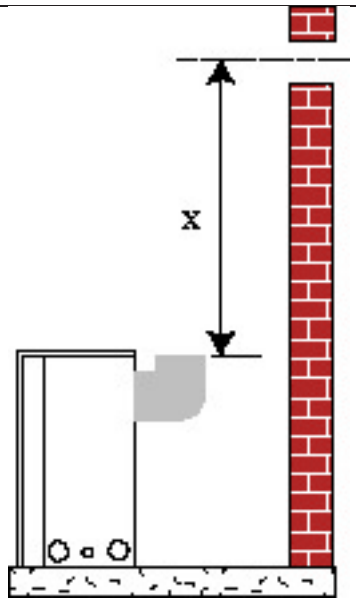


Fig. 24

Step 4

Attach appropriate lengths of venting using the joining methods outlined in 'Assembling Vent Pipes'. When the desired height has been reached attach the top inner and outer elbow, again secure joints as described on page earlier.

Step 5

Measure the horizontal length requirement including a 2" (50 mm) overlap, i.e. from the elbow to the outside wall face plus 2" (50 mm) (or the distance required if installing a second 90º elbow. (Fig. 21). Use appropriate length of pipe sections - telescopic or fixed - and install. The sections which go through the wall are packaged with the starter kit, and can be cut to suit if necessary. (Fig. 25).

Always install horizontal venting on a level plane.

Sealing vent pipe and firestop gaps with high temperature sealant will restrict cold air being drawn in around fireplace.

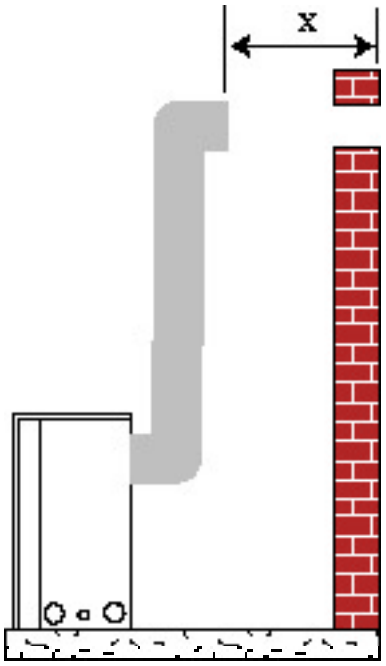


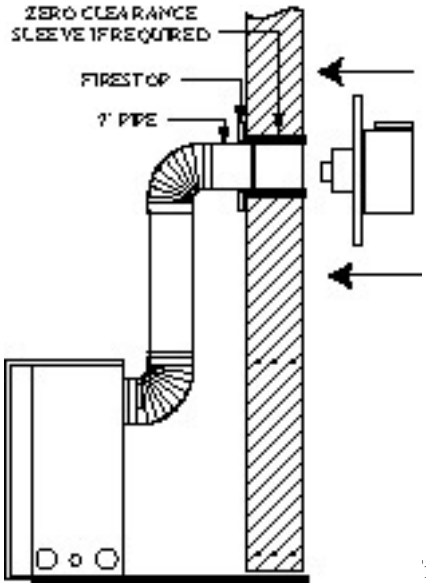
Fig. 25

Step 7

Apply high temperature sealant to 4" (100 mm) and 7" (175 mm) collars or the termination one inch away from crimped end. Guide the vent terminations 4" and 7" collars into their respective vent pipes. Double check that the vent pipes overlap the collars by 2" (50 mm). Secure the termination to the wall with screws provided and caulk around the wall plate to weatherproof, Fig. 26. As an alternative to screwing the termination directly to the wall you may also use expanding plugs or an approved exterior construction adhesive. You may also attach the termination with screws through the inner body into the 4" vent pipe however for this method you must extend the 4" pipe approximately 6" (150 mm) beyond the outer face of the wall.

Support horizontal pipes every 3' (91 cm) with metal pipe straps.

Check fireplace to make sure it is levelled and properly positioned.



ig. 26

Below Grade Installations

When it is not possible to meet the required vent terminal clearances of 12" (305mm) above grade level a starter vent kit is recommended. It allows installation depth of down to 7" (178mm) below grade level. The 7" is measured from the centre of the horizontal vent pipe as it penetrates through the wall.

If venting system is installed below ground, we recommend a window well with adequate and proper drainage be installed around the termination area.

Ensure sidewall vent termination clearances are observed.

If installing a snorkel a minimum 24" (610 mm) vertical rise is necessary. The maximum horizontal run with the 24" (610 mm) vertical pipe is 36" (915mm). This measurement is taken from the collar of the fireplace (or transition elbow) to the face of the exterior wall. See the Sidewall Vent Graph for extended horizontal run if the vertical exceeds 24".

1 Establish vent hole through the wall (Fig. 22).
2 Remove soil to a depth of approximately 16" (405 mm) below base of snorkel. Install drain pipe. Install window well (not supplied). Refill hole with 12" (305 mm) of coarse gravel leaving a clearance of approximately 4" (100 mm) below snorkel. (Fig. 27)
3 Install vent system.
4 Ensure a watertight seal is made around the vent pipe coming through the wall.
5 Apply high temperature sealant caulking (supplied) around the 4" and 7" snorkel collars.
6 Slide the snorkel into the vent pipes and secure to the wall.
7 Level the soil so as to maintain a 4" (100 mm) clearance below snorkel. (Fig. 27)

DO NOT BACK FILL AROUND SNORKEL.

A CLEARANCE OF AT LEAST 4" MUST BE MAINTAINED BETWEEN THE SNORKEL AND THE SOIL

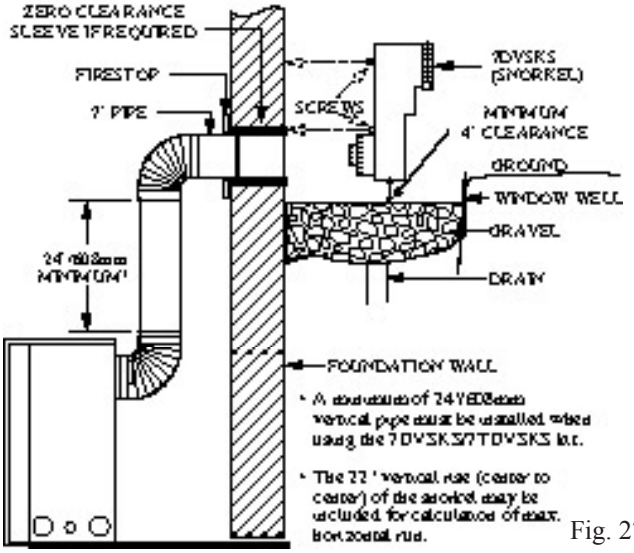


Fig. 27

If the foundation is recessed, use recess brackets (not supplied) for securing lower portion of the snorkel. Fasten brackets to wall first and then secure to snorkel with self-drilling #8 x 1/2 sheet metal screws. It will be necessary to extend the vent pipes out as far as the protruding wall face (Fig. 28).

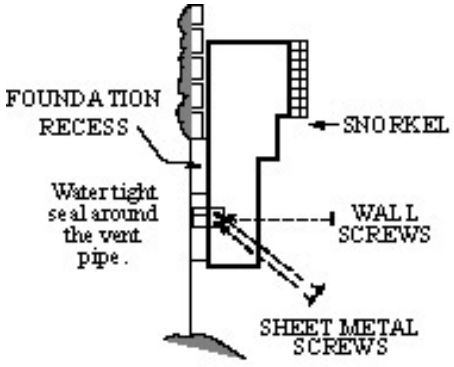


Fig. 28

Vertical Through-The-Roof Applications

This Gas Fireplace has been approved for,

- Vertical installations up to 40' (12 m) in height. Up to a 10' (3.1 m) horizontal vent run can be installed within the vent system using a maximum of two 90º elbows. (Fig. 29)

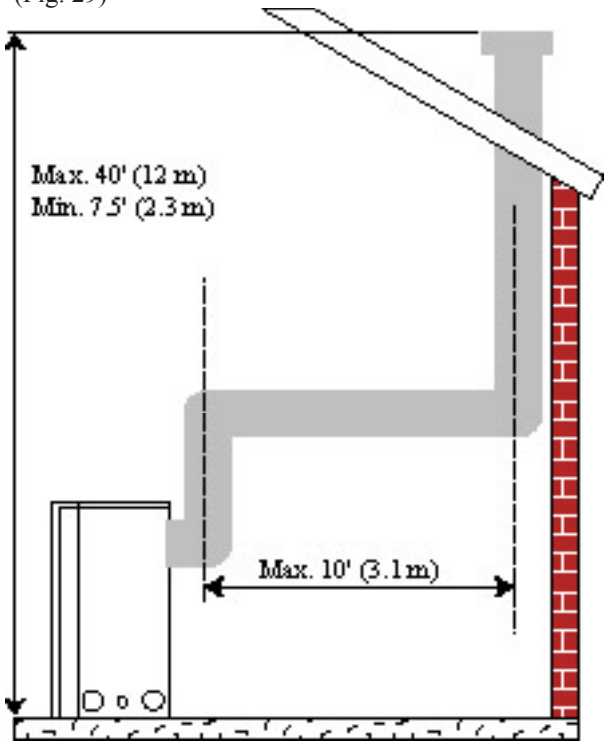


Fig. 29

- Up to two 45º elbows may be used within the horizontal run. For each 45º elbow used on the horizontal level the maximum horizontal length must be reduced by 18" (457 mm).

  Example: Maximum horizontal length

0	x	45º elbows	=	10' (3.1 m)
1	x	45º elbow	=	8.5' (2.6 m)
2	x	45º elbows	=	7' (2.1 m)

- A minimum of an 8' (2.4 m) vertical rise.
- Two sets of 45º elbow offsets within these vertical installations. From 0 to a maximum of 8' (2.4 m) of vent pipe can be used between elbows. (Fig. 30)
- A 7DVCS bracket must be used to support offsets. This application will require that you first determine the roof pitch and use the appropriate starter kit. (See Venting Components List)
- The minimum height of the vent termination above the highest point of penetration through the roof is 2' (610 mm), Fig. 31.

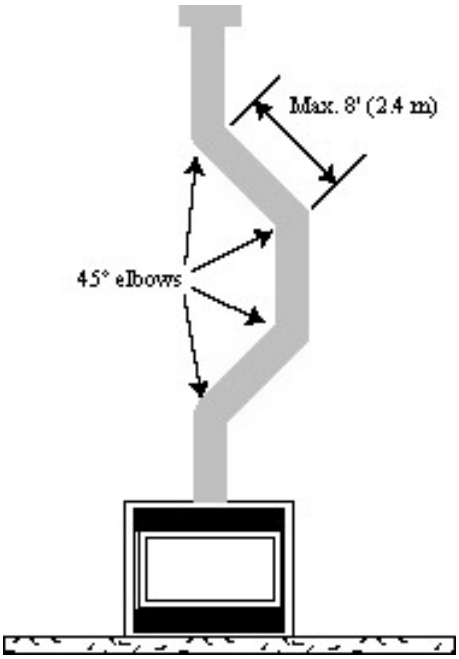


Fig. 30

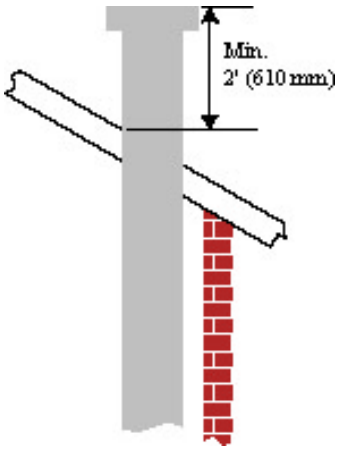


Fig. 31

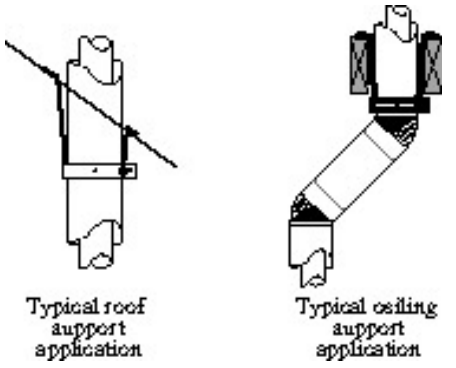


Fig. 32

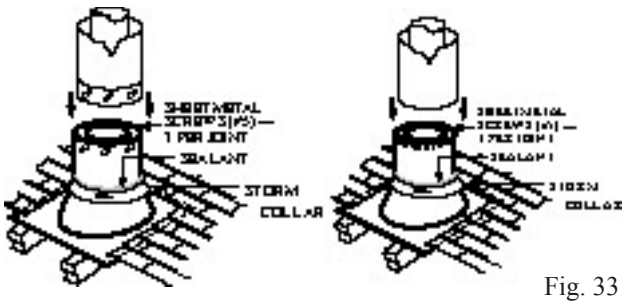


Fig. 33

Vertical Through-The-Roof Installation

1. Locate your fireplace.
2. Plumb to centre of the 4" (100 mm) flue collar from the ceiling above and mark the position.
3. Cut an opening equal to 9-3/8" x 9-3/8" (240 mm x 240 mm).
4. Proceed to plumb for additional openings through the roof. In all cases, the opening must provide a minimum of 1" (25 mm) clearance to the vent pipe, i.e., the hole must be at least 9-3/8" x 9-3/8" (240 mm x 240 mm).
5. Place the fireplace into position and secure it to the floor.
6. Place firestop(s) #7DVFS and Attic Insulation Shield #7DVAIS (if required) into position and secure with screws or nails. (Fig. 34)

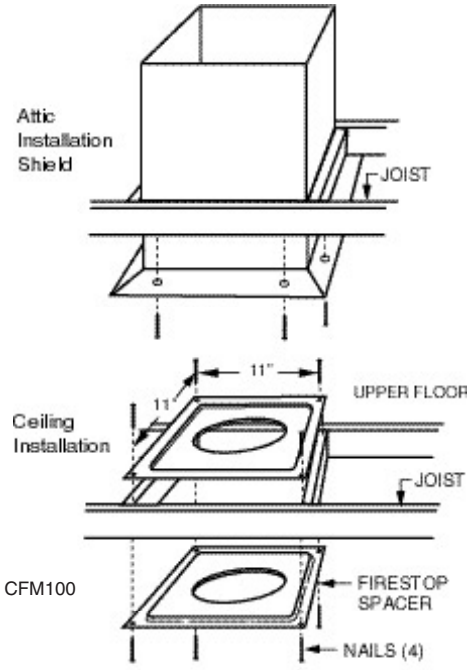


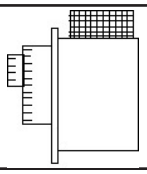
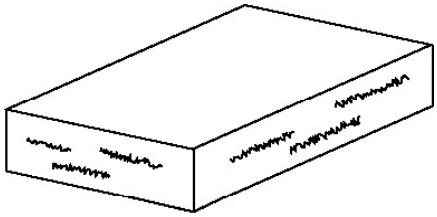
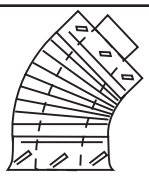
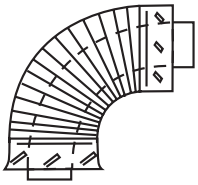
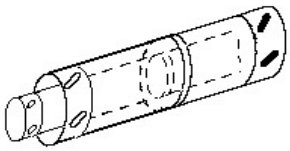
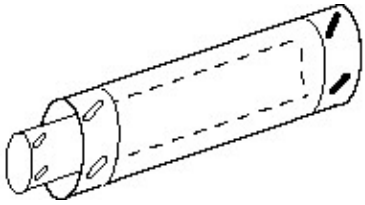
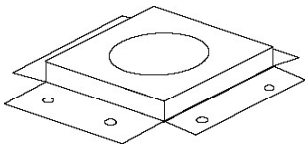
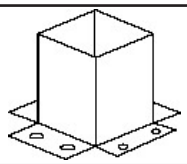
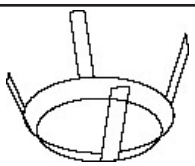
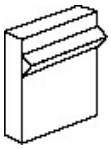
Fig. 34

7. Install roof support (Fig. 32) and roof flashing making sure the upper flange of the flashing is under the shingles. Fig. 33.
8. Install appropriate pipe sections until the flue is above the flashing. (See Fig. 33).
9. Install the storm collar and seal around the pipe.
10. Add additional vent lengths to achieve the require termination height. Fig. 31.
11. Apply high temperature sealant to 4" (100 mm) and 7" (175 mm) collars of vertical vent termination and install onto the venting.

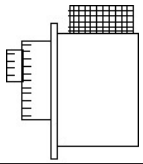
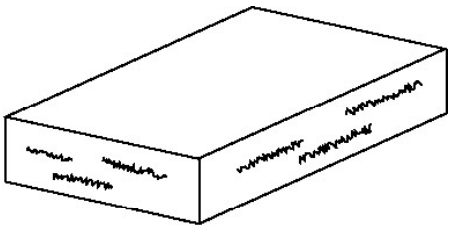
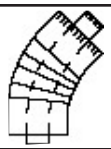
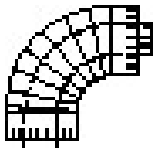
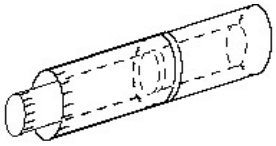
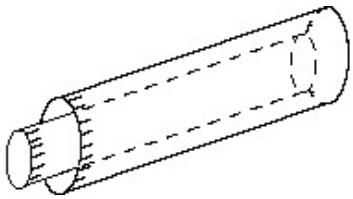
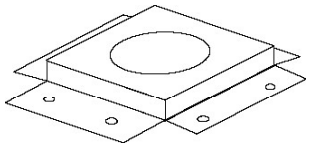
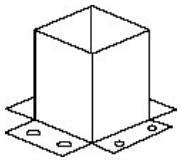
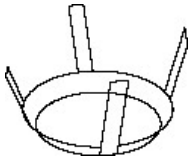
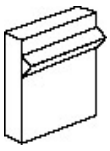
If there is a room above ceiling level, firestop spacer must be installed on both the bottom and the top side of the ceiling joists. If an attic is above ceiling level a 7DVAIS (Attic Insulation Shield) must be installed.

The enlarged ends of the vent section always face downward,

Twist Lock Venting Components

	7DVRVT - Through the wall Rear Vent Termination
	Starter Kit -Model 7TDVSK - Sidewall Venting Starter Kit - Model 7TDVSKV - Vertical Venting for 7TDVSKV-A order 1/12 to 6/12 roof pitch for 7TDVSKV-B order 7/12 to 12/12 roof pitch for 7TDVSKV-F order flat roof Starter Kit - Model 7TDVSKS -Snorkel Kit for Below Grade Installation
 FP892	45º elbow kit 7TDV45 for Vertical Installation Offsets 7TDR45 for Rear Vent Application
 FP893	90º transition elbow kit 7TDVRT90 for Vertical Sidewall Applications or thru-the-roof.
	Telescopic vent sections 7TDVP1218 - 12" to 18" adjustable length 7TDVP3564 - 35" to 64" adjustable length
	Pipe sections for vertical or horizontal venting Model 7TDVP8" Model 7TDVP12" Model 7TDVP24" Model 7TDVP36" Model 7TDVP48"
	Firestop Spacer Model 7DVFS
	Attic Insulation Shield Model 7DVAIS
	Vertical/Horizontal Combination Offset Support Model 7DVCS
	7DVSS Siding Shield (to protect siding)

Crimped End Venting Components

	7DVRVT - Through the wall Rear Vent Termination
	Starter Kit -Model 7DVSK - Sidewall Venting Starter Kit - Model 7TDVSKV - Vertical Venting for 7DVSKV-A order 1/12 to 6/12 roof pitch for 7DVSKV-B order 7/12 to 12/12 roof pitch for 7DVSKV-F order flat roof Starter Kit - Model 7TDVSKS -Snorkel Kit for Below Grade Installation
	45º elbow kit 7DVT45 for Vertical Installation Offsets 7DV45 for Rear Vert Application
	90º transition elbow kit 7DVRT90 for Vertical Sidewall Applications or thru-the-roof.
	Telescopic vent sections 7DVP610 - 6" to 10" adjustable length 7DVP1018 - 10" to 18" adjustable length 7DVP1834 - 18" to 34" adjustable length 7DVP3466 - 34" to 66" adjustable length
	Pipe sections for vertical or horizontal venting Model 7DVP8" - 4 per box Model 7DVP12" - 4 per box Model 7DVP24" - 4 per box Model 7DVP36" Model 7DVP48"
	Firestop Spacer Model 7DVFS
	Attic Insulation Shield Model 7DVAIS
	Vertical/Horizontal Combination Offset Support Model 7DVCS
	7DVSS Siding Shield (to protect siding)

General Operating Instructions

Glass Information

Only glass approved by Vermont Castings, Majestic Products should be used on this fireplace.

- The use of any non-approved replacement glass will void all product warranties.
- Care must be taken to avoid breakage of the glass.
- Under no circumstances should this appliance be operated without the front glass in place, or with the glass in a damaged condition.
- Replacement glass (complete with gasket) is available through your Vermont Castings, Majestic Products dealer and should only be installed by a licensed qualified service person.

General Maintenance

Burner and Burner Compartment

It is important to keep the burner and the burner compartment clean. At least once per year the logs and lava rock/ember material should be removed and the burner compartment vacuumed and wiped out. Remove and replace the logs as per the instructions in this manual.

Always handle the logs with care as they are fragile and may also be hot if the fireplace has been in use.

FK24/FK12 Fan Assembly

The fan unit requires periodic cleaning. At least once per month in the operating season open the lower louvre panels and wipe or vacuum the area around the fan to remove any build up of dust or lint.

Brass Trim

Clean the brass trim pieces using a soft cloth lightly dampened with lemon oil. Do not use water or household cleaners on any brass components.

Louvre Removal

The top louvre panel is removed by lifting the panel vertically and pulling it away from the appliance, Fig. 35.

The lower louvre panel, or access door, is hinged along its lower edge and is folded down the gain access to the gas control and other components.

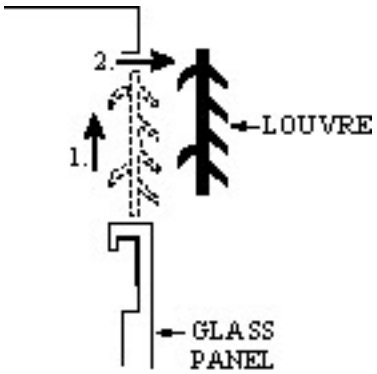


Fig. 35

Glass Frame Removal

1 Turn the fireplace OFF (including the pilot).
2 If the unit has been operating allow time for the components to cool.
3 Remove the top louvre assembly.
4 Open the lower louvre panel.
5 Release the two clamps securing the lower edge of the frame by pulling down on the handles, Fig. 36.
6 Tilt the glass frame out slightly at the bottom, lift the frame up and away from the fireplace.
7 To replace the glass frame reverse the procedure.

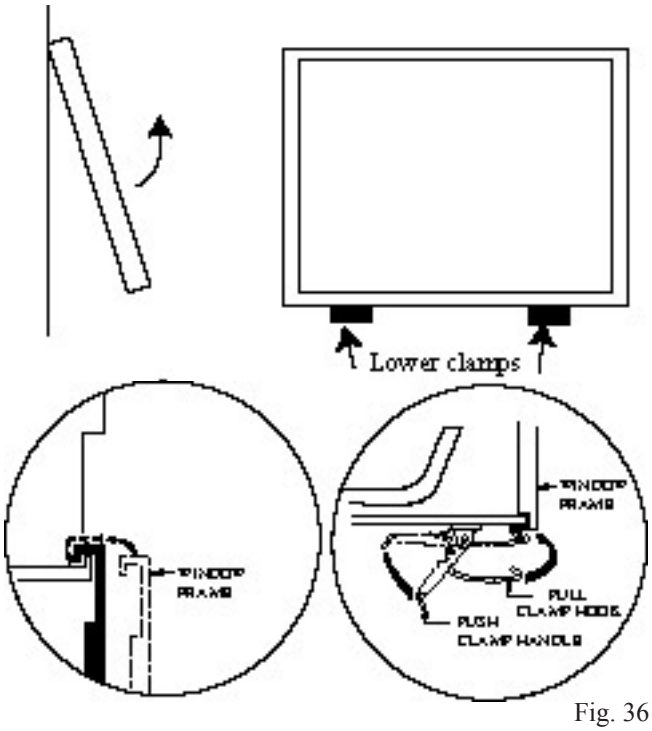


Fig. 36

Glass Cleaning

It is necessary to periodically clean the glass.

During start-up condensation, which is normal, forms on the inside of the glass. This condensation causes lint, dust and other airborne particles to cling to the glass surface.

Also initial paint curing may deposit a slight film on the glass.

It is therefore recommended that the glass be cleaned two or three times with a non-ammonia based household cleaner and warm water (we recommend gas fireplace glass cleaner) within the first few weeks of operation.

After this initial cleaning process the glass should be cleaned two or three times during each operating season depending on the environment in the house.

Clean the glass after the first two weeks of operation.

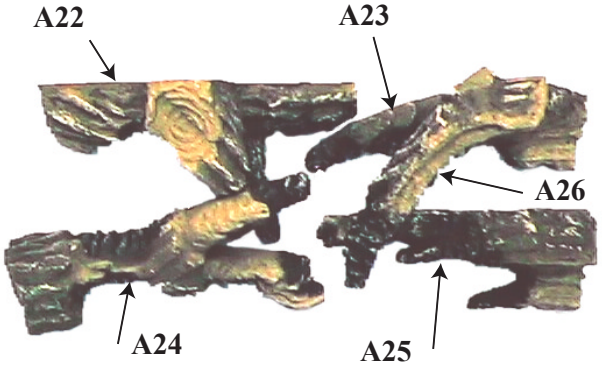
Installation of the Logs & Lava Rock Material

Refer to Fig. 37 for log identification during this procedure.

1. Remove the front glass/frame assembly.
2. Remove the logs from their packaging

The logs should be handled with care as the material is fragile.
Keep the packaging material out of the reach of children and dispose of the material in a safe manner.

3. Fit the right rear log ((A23) in place on the rear log support. The holes in the underside of the log fit over the two pins on the right end of the support shelf.
4. Fit the left rear log (A22) in place. The log sits on the left end of the support shelf.
5. Fit the right front log (A25) in place. The holes in the underside of the log fit over the pins on the log support bracket over the burner housing.
6. Fit the left front log (A24) in place. The left end of this log rest on the outer edge of the burner housing, the inner top fork rest across the cutout in the left rear log (A23) and the inner front fork rest on the front edge of the burner housing.
7. Fit the top log (A26) in place with the hole in the underside of the log aligning with the knob on the top of the left rear log (A22) and the front of the log laying across the cutout in the right front log (A25).



DVR33 Log Set (viewed from above) Fig. 37

Flame & Temperature Adjustment

RN/RP Models

For units equipped with 'HI/LO' valves the flame adjustment is accomplished by rotating the 'HI/LO' adjustment knob located near the centre of the gas control valve, Fig.38 & 39

Fig. 38

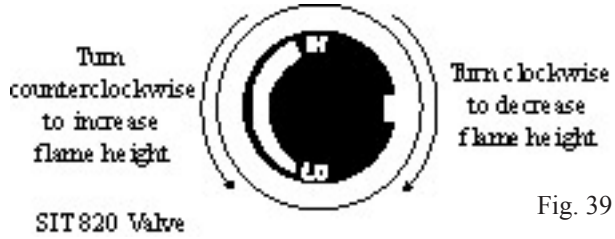
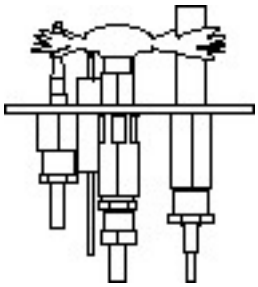


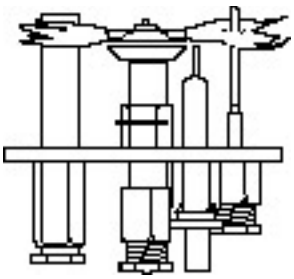
Fig. 39

Flame Characteristics

It is important to periodically perform a visual check of the pilot and burner flames. Compare them to the pictorials illustrated below, Figs. 40& 41.
If the flame patterns appear abnormal contact a qualified service provider for service and adjustment.



PSE Pilot



SIT Top Convertible Pilot

Fig. 40

DVR33 Fig. 41

LIGHTING AND OPERATING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This fireplace has a pilot which must be lit manually.
When lighting the pilot follow these instructions exactly.

B. BEFORE LIGHTING smell all around the fireplace area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

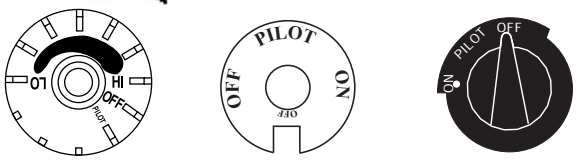
- ***Do not try to light any fireplace.***
- ***Do not touch any electric switch***
- ***Do not use any phone in your building***
- ***Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.***
- ***If you cannot reach your gas supplier, call the Fire Department***

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.

D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.

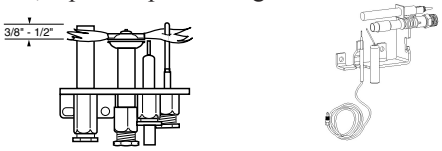
LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this page.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the On/Off switch to “OFF” position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.



EURO SIT SIT NOVA HONEYWELL

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this page. If you don't smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal in manual).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counter clockwise to "PILOT".
10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.



- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.

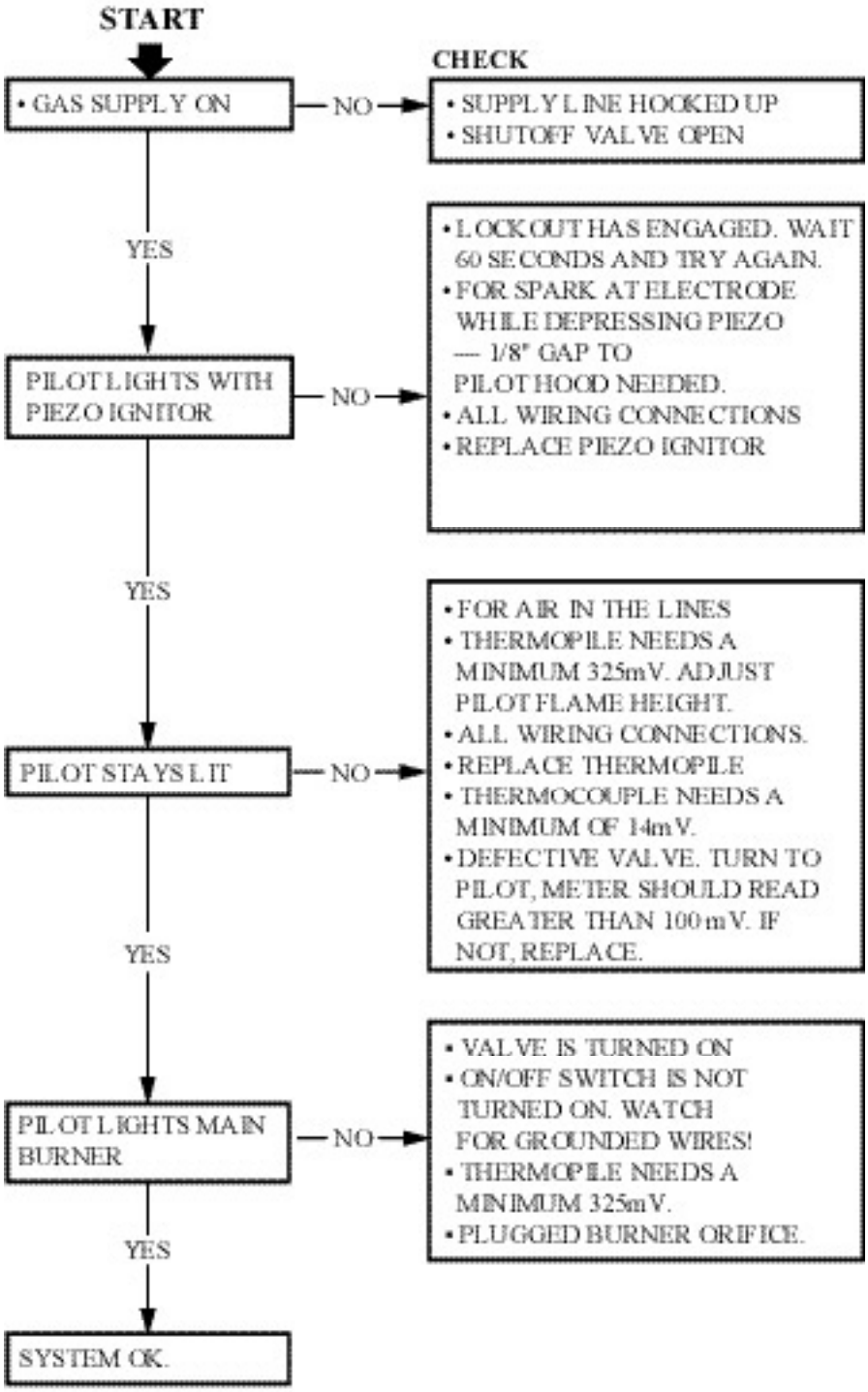
11. Replace glass door.
12. Turn gas control knob to "ON" position.
13. For RN/RP appliances turn the On/Off switch to "ON" position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

TO TURN OFF GAS TO FIREPLACE

1. Turn the On/Off switch to “OFF” position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
5. Close control access panel.

TROUBLE SHOOTING THE GAS CONTROL SYSTEM

HONEYWELL MILLIVOLT VALVE


START
• GAS SUPPLY ON
NO
CHECK
• SUPPLY LINE HOOKED UP
• SHUTOFF VALVE OPEN
YES
PILOT LIGHTS WITH PIEZO IGNITOR
NO
• LOCKOUT HAS ENGAGED. WAIT 60 SECONDS AND TRY AGAIN.
• FOR SPARK AT ELECTRODE WHILE DEPRESSING PIEZO — 1/8" GAP TO PILOT HOOD NEEDED.
• ALL WIRING CONNECTIONS
• REPLACE PIEZO IGNITOR
YES
PILOT STAYS LIT
NO
• FOR AIR IN THE LINES
• THERMOPILE NEEDS A MINIMUM 325mV. ADJUST PILOT FLAME HEIGHT.
• ALL WIRING CONNECTIONS.
• REPLACE THERMOPILE
• THERMOCOUPLE NEEDS A MINIMUM OF 14mV.
• DEFECTIVE VALVE. TURN TO PILOT, METER SHOULD READ GREATER THAN 100 mV. IF NOT, REPLACE.
YES
PILOT LIGHTS MAIN BURNER
NO
• VALVE IS TURNED ON
• ON/OFF SWITCH IS NOT TURNED ON. WATCH FOR GROUNDED WIRES!
• THERMOPILE NEEDS A MINIMUM 325mV.
• PLUGGED BURNER ORIFICE.
YES
SYSTEM OK.

TROUBLE SHOOTING THE GAS CONTROL SYSTEM

SIT NOVA 820 MILLIVOLT VALVE

Note: Before trouble shooting the gas control system, be sure external gas shut off is in the "On" position.

WARNING: BEFORE DOING ANY GAS CONTROL SERVICE WORK, REMOVE GLASS FRONT.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark ignitor will not light	A. Defective or misaligned electrode at pilot.	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot-should be 1/8" to have a strong spark.
	B. Defective ignitor (Push Button)	Push Piezo Ignitor Button. Check for spark at electrode and pilot. If no spark to pilot, and electrode wire is properly connected, replace ignitor.
2. Pilot will not stay lit after carefully following lighting instructions.	A. Defective pilot generator (thermocouple), remote wall switch.	1. Check pilot flame. Must impinge on thermocouple/ thermopile. Note: this pilot burner assembly utilizes both- a thermocouple and a thermopile. The thermocouple operates the main valve operation (On and Off). Clean and or adjust pilot for maximum flame impingement on thermopile and thermocouple.
	B. Defective automatic valve	Turn valve knob to "Pilot". Maintain flow to pilot; mil liv olt meter should read greater than 10 mV. If the reading is okay and the pilot does not stay on, replace the gas valve. Note: An interrupter block (not supplied) must be used to conduct this test.
3. Pilot burning, no gas to main burner	A. Wall switch or wires defective	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	B. Thermopile may not be generating sufficient millivoltage.	1. Be sure wire connections from thermopile at gas valve terminals are tight and thermopile is fully inserted into pilot bracket. 2. One of the wall switch wires may be grounded. Remove wall switch wires from valve terminals if pilot now stays lit, trace wall switch wiring for ground. May be grounded to fireplace or gas supply. 3. Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 250-300 millivolts (minimum 150) while holding valve knob de-pressed in pilot position and wall switch "Off". Replace faulty thermopile if reading is below specified minimum
	C. Plugged burner orifice.	Check burner orifices for debris and remove.
	D. Defective automatic valve operator.	Turn valve knob to "On", place wall switch to "On" millivolt meter should read greater than 100 mV. If the reading is okay and the burner does not come on, replace the gas valve.
4. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermopile and thermocouple.
	B. Possible blockage of the vent terminal.	Check the vent terminal for blockage (recycling the flue gases)

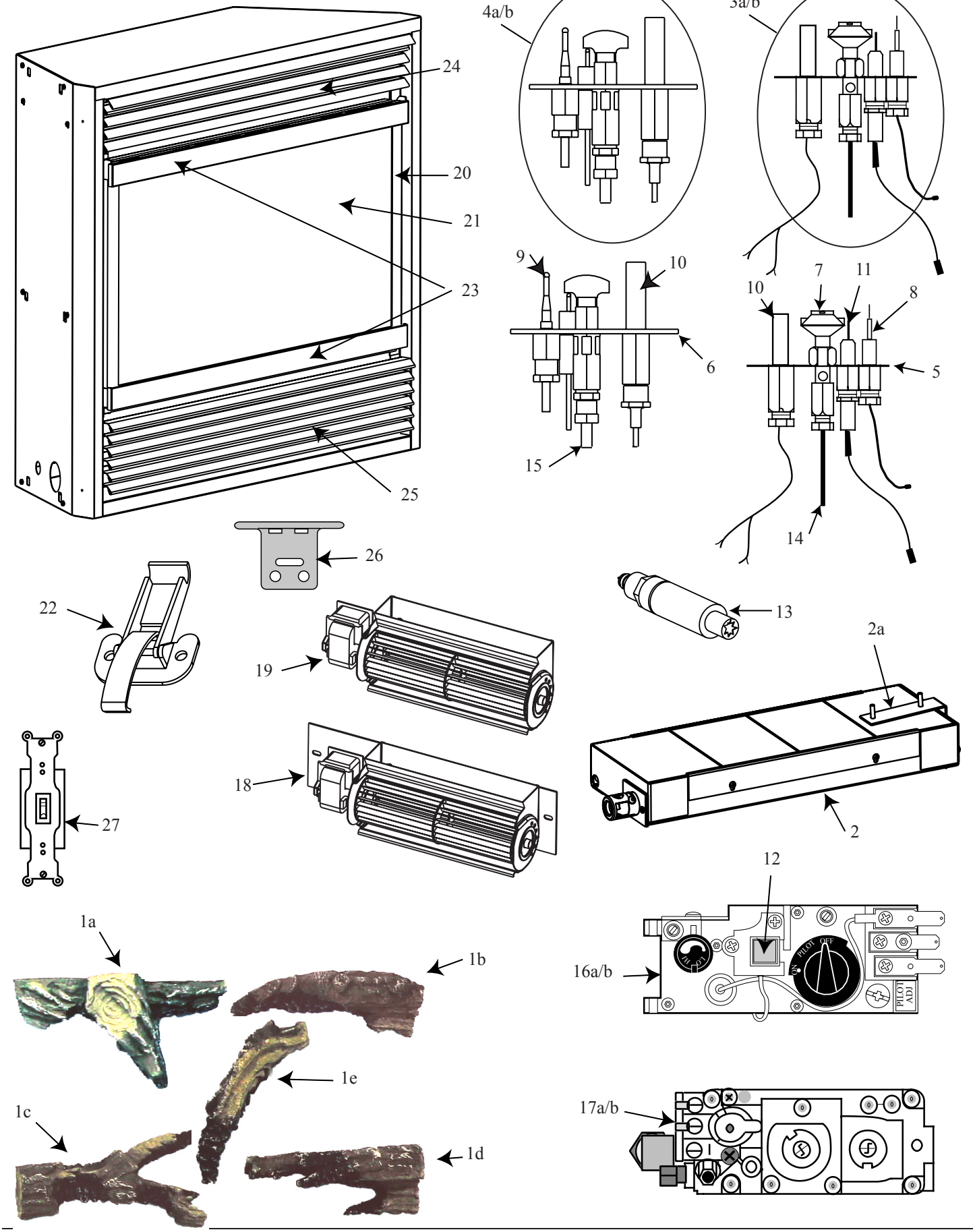
Replacement Parts List

Items marked '*' are not shown in the following parts pictorial page.

		DVR33
Ref.	**Description**	**Part Number**
1	Log set (complete)	10002729
1a	Log - left rear	A22
1b	Log - right rear	A23
1c	Log - left front	A24
1d	Log - right front	A25
1e	Log - top	A26
*	Lava rock (pack)	10001454
*	Ceramic rock (pack)	57897
2	Burner housing with tiles, Nat. & Prop.	10002718
2a	Log support bracket	10002515
*	Ceramic tile, single	57803
*	Orifice, burner, Nat. & Prop	See the rating plate for orifice specifications
3a	Pilot assembly SIT top convertible, Nat.	10002264
3b	Pilot assembly SIT top convertible, Prop	10002265
4a	Pilot assembly PSE, Nat.	10001739
4b	Pilot assembly PSE, Prop.	10001740
5	Pilot SIT top convertible.	10002266
6	Pilot PSE, (with cable and electrode).	10001824
*	Pilot orifice, SIT Nat	10002268
*	Pilot orifice, SIT Prop.	10002269
*	Pilot orifice, PSE Nat.	10001822
*	Pilot orifice, PSE Prop.	10001823
7	Pilot hood SIT top convertible	10002385
8	Thermocouple, SIT	53373
9	Thermocouple, PSE	10001828
10	Thermopile	51827
11	Ignitor electrode with cable, SIT	10001297
12	Piezo ignitor, Honeywell gas valve	20000062
13	Piezo ignitor, SIT820 gas valve	52464
14	Pilot tube with fittings, SIT	10001296
15	Pilot tube with fittings, PSE	53211
*	Manifold tube with fittings	10002498
*	Flexible gas supply line with ON/OFF valve	20002500
16a	Honeywell gas control valve, Nat.	10000235
16b	Honeywell gas control valve, Prop.	10000242
17a	SIT820 gas control valve, Nat.	52677
17b	SIT820 gas control valve, Prop.	52678
18	Fan assembly (with bracket, FK24 option	54103

*	Electric cord, FK 24 option	51865
*	Fan temperature sensor, FK24 option	51704
*	Fan speed control, FK24 option	51738
*	Knob, fan speed control, FK24 option	51882
19	Fan assembly, with bracket, FK12 option	ZA1110
20	Window frame assembly	10001803
21	Window glass, with casket	10000961
*	Gasket, window replacement kit	57317
22	Clamp, window frame	54174
23	Window trim, polished brass (with magnets)	55005
24	Top louvre assembly	10000292
25	Bottom louvre assembly	10000293
26	Hinge, bottom louvre assembly	52356
27	Remote ON/OFF switch	51842
*	Remote ON/OFF switch kit (switch, wire and bracket)	53875

Parts Pictorial



Optional Accessories Available

Fan Kits

FK24 Fan Assembly

This auxiliary fan system increases the efficiency of the circulation of the heating air.

The FK24 fan kit allows variable speed control of the circulation fan and also incorporates a heat sensor in the circuit.

Specifications
115 Volt / 60 Hz / 56 Watts

Maintenance

The fan itself does not require regular maintenance, however periodic cleaning of the fan and the surrounding area is required.

Check the area under the control door (lower louvre assembly) and in front of the fan and wipe or vacuum this area at least once a month during the operating season.

Installation

The fan assembly and other components are supplied fully wired eliminating the need for a licensed electrician to carry out the installation

If hard wiring the fan using Method B (following) we strongly recommend the use of a licensed electrician.

1 Open the lower Louvre assembly. Maneuver the fan & bracket assembly around the gas valve and lines to locate the unit onto the screw studs on the back of the fireplace

2 Install the thermal sensor under the bottom of the firebox, locating it over the two 10 mm studs and secure it with nuts.

3 Locate the fan speed control unit. This can be fitted behind the lower louvre assembly as in Fig. 42 or located remotely in a conveniently located wall mounted electrical box. Remote location of the speed control will require suitable extension of the component wiring.

4 The power supply may be connected in 2 ways:

Method A
Route the 6' lead fitted to the unit to a conveniently located wall socket.

Method B
The optional EB1 receptacle box (Pt. # ZA1200) may be fitted to the unit and hard wired into the house supply. The fan lead is then plugged into the EB1 box.

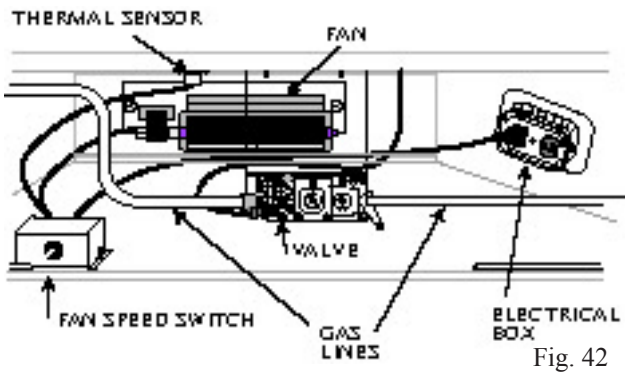


Fig. 42

FK12

This auxiliary fan system increases the efficiency of the circulation of the heating air.

The FK12 Fan Assembly is a fixed speed fan system and does not allow for variable speed control. It does not use the speed control unit or the heat sensor used in the FK24 Kit.

Specifications
115 Volts / 60 Hz / 56 Watts.

Maintenance

The fan itself does not require regular maintenance, however periodic cleaning of the fan and the surrounding area is required.

Check the area under the control door (lower louvre assembly) and in front of the fan and wipe or vacuum this area at least once a month during the operating season.

Installation

The fan assembly is supplied fully wired eliminating the need for a licensed electrician to carry out the installation

1. Open the lower Louvre assembly. Maneuver the fan & bracket assembly around the gas valve and lines to locate the unit against the back wall of the appliance, resting on the base.
2. With the protective cover removed from the self-adhesive 'Velcro' strips apply mild pressure to the fan & bracket unit to secure the strips to the metal panels. No further securing is required.
3. Power to the fan can be supplied by plugging the supplied lead into a conveniently located wall socket or by using a hard-wired EB1 connector box.

Wiring Instructions

The fireplace, when installed, must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22.1 Canadian Electric Code.

For U.S.A. installations follow the local codes and the national electrical code ANSI/NFPA No 70.

Should this fan require servicing or repair the power supply must be disconnected. For rewiring of any replacement parts see Fig. 43

Any electrical re-wiring of this fan must be done by a licensed electrician.

Method A (Not using EB1, Fig. 43)

1 Connect the ground wire of the power supply line to the ground stud located on the base of the firebox.

2 Connect the black wire of the supply line to either terminal of the speed control unit.

3 The second terminal of the speed control unit is attached to either terminal of the thermal sensor.
4 The second terminal of the thermal sensor is connected to either terminal of the fan motor.
5 The second fan motor terminal is connected to the white wire of the supply line.

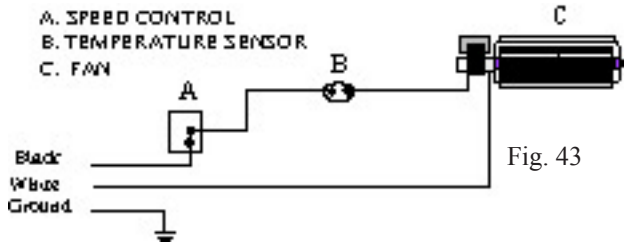


Fig. 43

Method B (Using the EB-1 Box.)
For instruction on wiring the EB-1 Electrical Junction Box see the section 'EB-1 Electrical Box Connection'.

Ceramic Refractory Panels

Ceramic refractory panels are available in kit form to line the firebox area.

Appliance Model	Kit Model
DVR33	DV33CR

Take care when handling the refractory panels as they are fragile until held in place and supported.

Installation, refer to Figs. 44.
1. Remove the front frame/glass assembly.
2. Remove the logs.
3. Place the lower supports for the side refractory panels on the base of the firebox. Place each support so that the slotted hole fits over the forward screw head along the edge of the base.
4. Lay the angular base panels in place on the floor of the firebox on either side of the burner housing
5. Loosely attach the top adjustable tabs to the studs located in the top of the firebox toward the front corners.
6. Place the rear refractory panel in place. Locate the lower edge of the panel into the top lip of the rear log support.
7. Slide the side refractory panels into place to hold the rear panel secure. Adjust the top adjustable tabs to hold the side panel against the firebox wall and secure the tab. Repeat the procedure on the other side.
8. Replace the logs and frame/glass assembly.

For esthetic purposes we recommend lining up the horizontal mortar lines.

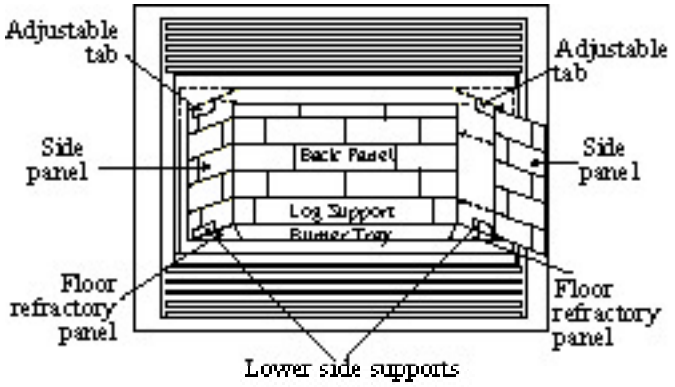


Fig. 44

Decorative Bay Windows

A decorative Bay Window kit is available for the DVR33.

When fitting the Bay Window Kit the original front frame/glass assembly MUST remain in place. The Bay Window kit is fitted over the existing front glass.

Installation
1. Remove the existing bottom louvre assembly complete with the hinges.
2. Remove the top louvre assembly
3. Assemble the Bay Window Kit according to the instructions supplied with the kit.
4. Place the 2 pieces of ceramic refractory along the base of the bay window, Fig. 45
5. Hang the Bay Window Assembly over the existing front frame & glass assembly.
6. Re-install the upper louvre assembly.

Do not remove the existing front frame and glass panel.

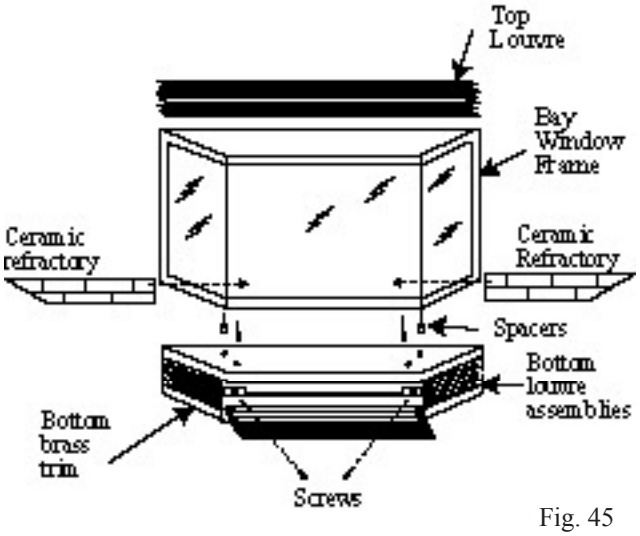


Fig. 45

Remote Controls

Optional remote control units are available to control different functions of the appliance.

Model	Function/s Controlled
MRC1	ON/OFF
MRC2	ON/OFF and Temperature
MRC3	ON/OFF and Temperature control with a digital display and a programmable 24 hour clock
IMT	Wall mounted thermostat control

Decorative Frame Trims

A selection of decorative frame trim kits is available for mounting around the outside of the appliance to further enhance its visual effect on the room. Installation instructions for each decorative frame trim are included with the frame trim kit.

Contact your authorized distributor for details of the trim kits, and ordering information for any trim kit applicable to this model appliance.